THE CHEMIST AND DRUGGIST

ESTAB 1859

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March 31st

After this date the

Special Bonus Offer of 1 dozen 1/3d tins made on all direct orders from retailers of 1 gross 1/3d tins, or their equivalent, of the

'Allenburys'

Glycerine and Black Currant

Pastilles

will be discontinued.

Order Now

Allen & Hanburys Ld,
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FINE QUALITY

BATH SOAPS

(Mammoth Tablets)

New pierced-platform Cartons containing 6 Mammoth Tablets (wrapped in Cellophane, 3 tango and 3 white), to retail at

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THE FOOD THAT BUILDS THE BODY

and you will make easy sales by adding YOUR word and by showing the showcards.

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Manufacturers of "MAGLACTIS," the Pure Hydrate of Magnesia with the continuous action.

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A WARNING

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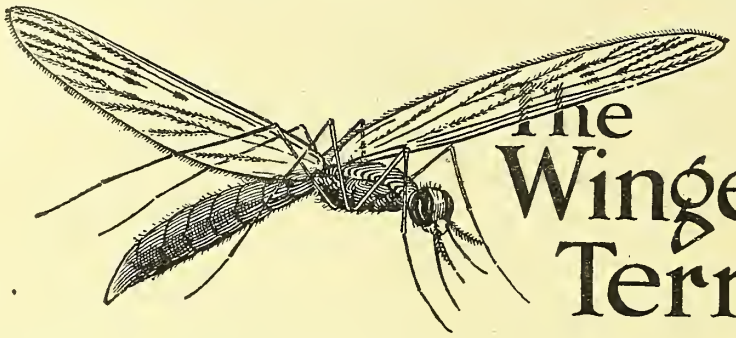
Genuine Marienbad Salt is not supplied in tablet form but only in powder form, and we the undersigned are the only sole selling agents or concessionnaires for Great Britain, Ireland, and the Colonies, under licence direct from the Marienbad Authorities, for the sale of such Marienbad products. The prices are as follows:

10	**Powder**	**size**	**- 2/9**	*Less 25%*
30	,,	,,	**- 7/6**	
60	,,	,,	**- 14/6**	

Press and Medical advertising is now in progress, and if it should come to our knowledge that the said product is being infringed, we shall immediately take such legal action in the matter as we may be advised.

PENNEY & CO. LTD., 16-18 Beak St., LONDON, W.1



The Winged Terror

Mosquitoes (gnats), midges, sandflies, wasps, etc. will soon be with us once again

TAKE ADVANTAGE of the bonus offer for window display on 2 dozen orders for **Sketolene** and secure over **40%** profit on turnover. In the case of the **1/3** size, this equals **6¼d.** profit on every bottle sold. The other size shows a return in ratio.

Sketolene is a scientific preparation for the prevention and relief of insect bites. It is thoroughly reliable, attractively packed, finds a ready sale and brings repeat business. Send your order to your usual wholesaler. Ask for the bonus offer and display material.

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Sketolene

Prevents and relieves insect bites

Send your order to your usual wholesale house

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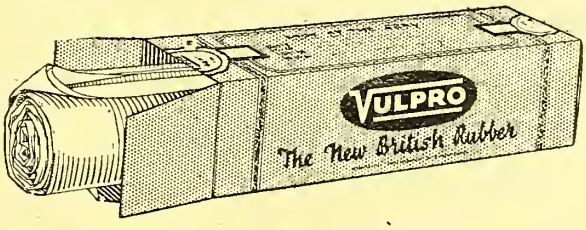

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ANY TIME
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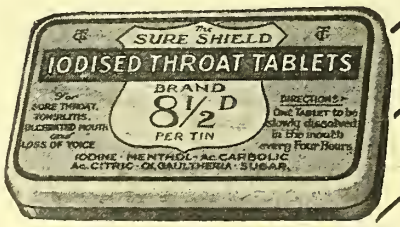
IODISED THROAT TABLETS



8½d. Tins
5/6 per doz. 63/- per gross

1s. 3d. Tins
9/6 per doz. 108/- per gross

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CARLSBAD SALT

in minute granules.

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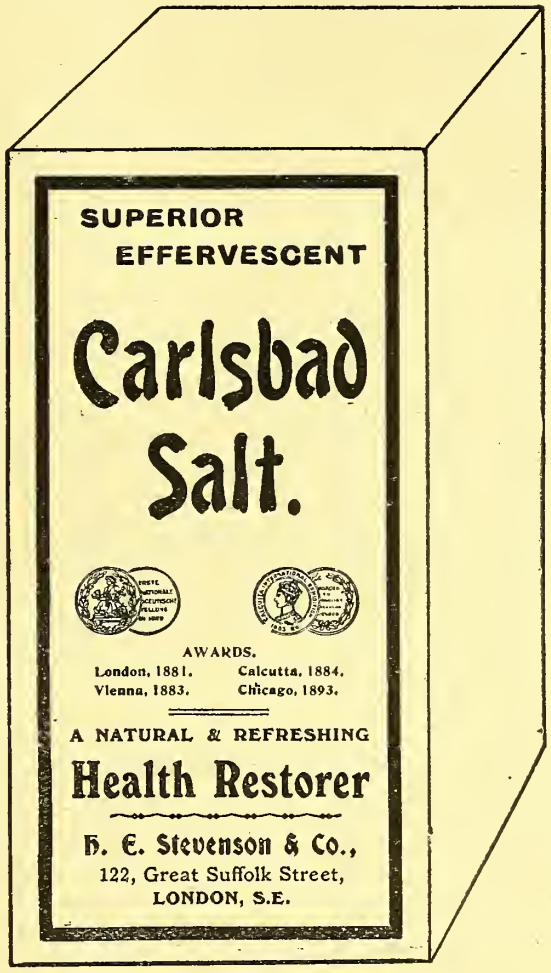

This Salt contains no sugar; made and mixed by machinery untouched by hand.

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In **8-oz.** cork-stoppered bottles and attractive cartons.

17/6 dozen

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SOUTHALL BROS. & BARCLAY LTD.
BIRMINGHAM

Maw's Page

Maw's Surgical Dressings

Will help you to Increase your Sales of Surgical Sundries

Surgical dressings are not merely one of the bread and butter lines of the pharmacy, they exercise an important influence upon, and are, indeed, the very basis of the pharmacist's surgical sundries business.

Rarely are dressings sold alone. Almost inevitably the customer requires other sick-room requisites, and the pharmacist who stocks and consistently displays reliable, well-presented surgical dressings is building up that section of his business which is peculiarly his own and not subject to unrestricted outside competition.

Realising this important fact, the House of Maw has concentrated its attention on the production of a series of dressings that would increase the reputation and prestige of the pharmacist who sells them.

To accomplish this purpose it has expended a vast amount of time, effort and money. It has studied carefully manufacturing problems, price problems, presentation problems and display problems. It has even gone to the length of building a model factory and undertaking manufacture on a large scale.

The discerning pharmacist remembers these things when he buys surgical dressings. He thinks not only of dressings, but of all the other sundries which a reputation for surgical dressings will help him to sell. He buys Maw's dressings because he knows it pays him to sell Maw's dressings.

Order your next batch of dressings from Maw's.

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.

TRADE MARK

Telegraphic Address: "CRESSWELL, HOLB., LONDON." *Telephone: No. 1432 Holborn.*

THE SPONGE HOUSE

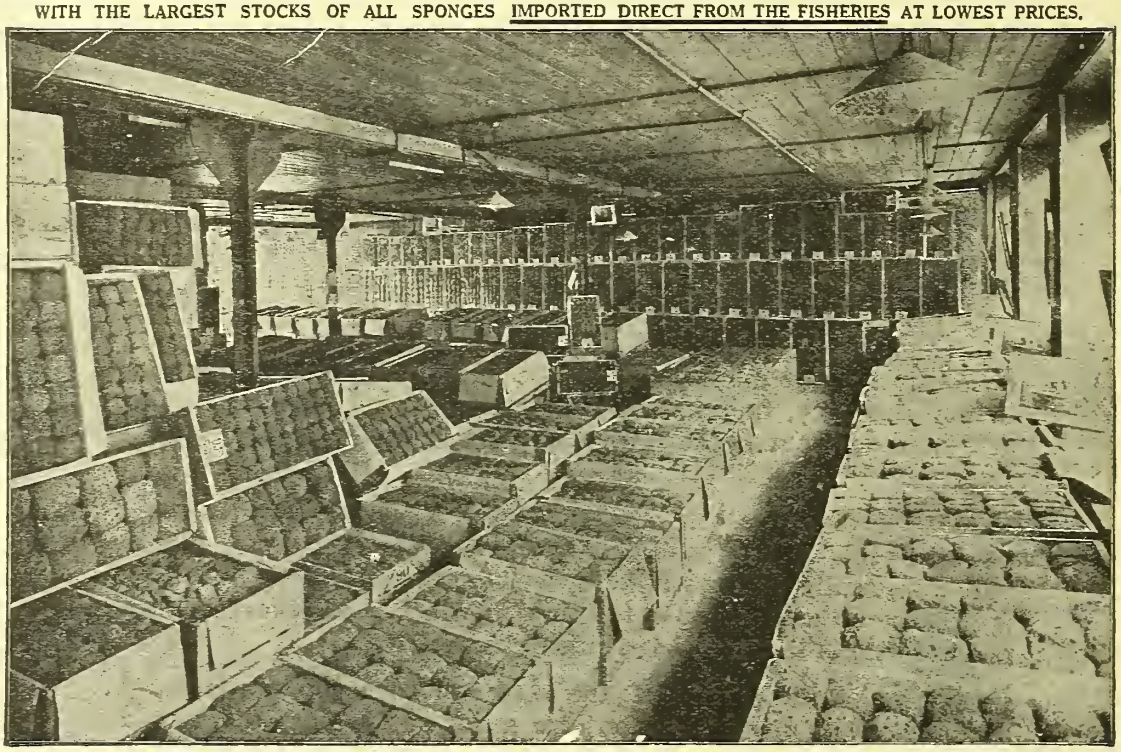
INTERNATIONAL SPONGE IMPORTERS, LIMITED,

CRESSWELL BROTHERS BRANCH

Sponge Importers, Exporters and Merchants, and Chamois Leather Dressers,

18 and 19 RED LION SQUARE (New Warehouses and Steam Bleacheries, 45½ EAGLE STREET) **LONDON, W.C.**

WITH THE LARGEST STOCKS OF ALL SPONGES IMPORTED DIRECT FROM THE FISHERIES AT LOWEST PRICES.



BUYERS ARE INVITED TO CALL AND INSPECT OUR LARGE AND VARIED STOCKS, AND THEY WILL CONVINCE THEMSELVES THAT THEY ARE DEALING IN THE "CHEAPEST MARKET"

UNBLEACHED MEDITERRANEAN SPONGES in Original Cases

HONEYCOMB.

Extra Choice. Finest Texture and Shape. The Pick of all the Fisheries.

Pieces in Case.		Average Price per Piece.
300	Toilet at	9d.
250	" "	1/-
200	" "	1/6
160	" "	2/-
140	" "	2/6
120	" "	3/-
100	" "	3/6
90	Medium Bath	4/6
80	" "	5/6
72	" "	6/6
60	" "	7/6
45	Large "	8/6
30	" "	10/6

HONEYCOMB.

Toilet & Bath.

Good 2nd Quality.

Pieces in Case.		Average Price per Piece.
270	at ..	6d.
180	" ..	9d.
170	" ..	1/-
160	" ..	1/6
140	" ..	2/-
120	" ..	2/6
110	" ..	3/-
90	" ..	3/6
80	" ..	4/-
75	" ..	4/6
70	" ..	5/-
65	" ..	5/6
60	" ..	6/6

FINE TURKEY SOLIDS.

SELECTED SHAPES.

1st Quality.

	Pieces in Case.	Average Price per Piece.
Nursery	200 at	1/-
Toilet	150 "	1/6
"	100 "	1/9
"	100 "	2/-
"	80 "	2/6
Bath	50 "	3/-
"	36 "	4/-
"	24 "	5/-

LOOSE GOODS DEPARTMENT. **SPONGES IN SMALL PACKAGES. Fine Turkey. Fine Egyptian and Honeycomb.** In 1st, 2nd and 3rd Qualities, Bleached or unbleached (state which in ordering). On strings of 1 dozen pieces, or loose in bags. At per doz.: **2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s., 30s., 36s., 42s., 48s., 54s., 60s., 66s., 72s.** **Bleached Cuban.** At per String or Dozen. Wool, Grass, Yellow and Fine. **1s., 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s.**

NEW VELVET HONEYCOMB. Soft, Durable and large for money. *Suitable for Toilet and Bath purposes.*
PRICES—Cut Shapes .. .. .. **3s., 4s., 6s., 9s., 12s., 15s., 18s., 21s., 24s.** per dozen.
" Natural Shapes **4s., 6s., 9s., 12s., 15s., 18s., 21s., 24s., 30s., 33s., 36s.** "
Strongly recommended where an inexpensive Toilet and Bath Sponge is required.

THE RATIONALE OF PLURIGLANDULAR THERAPY

It is now recognised that the internal secretions do not, like drugs, obtain their effects by direct pharmacologic action and that generally the combined action of several gland products is often essential to obtain a single physiological effect. Clinical experience supports the theory that disease of one gland will affect the functioning to a more or less serious extent of one or more other glands and that it is necessary to treat the secondary disturbance as well as the primary disturbance.

THE FORMULÆ OF

Evans' Sexatones

"MALE" and "FEMALE" HAVE BEEN EVOLVED ACCORDINGLY.

Composed of properly prepared gland products they are a scientific combination of endocrine substances which grouped in correct physiological proportions are markedly successful in producing a normal physiological stimulus through an increase in the activity of the sympathetic system. In both formulæ the probable correlation between the pituitary thyroid and suprarenal are accepted and in addition the "MALE" formula (O.T.M. 621) contains orchitic, prostate and cerebrin substances; the "FEMALE" (O.T.M. 625) ovary, mammary, thymus and cerebrin.

Evans' SEXATONES are prescribed for cases of general and nervous debility and premature old age.

PRICES

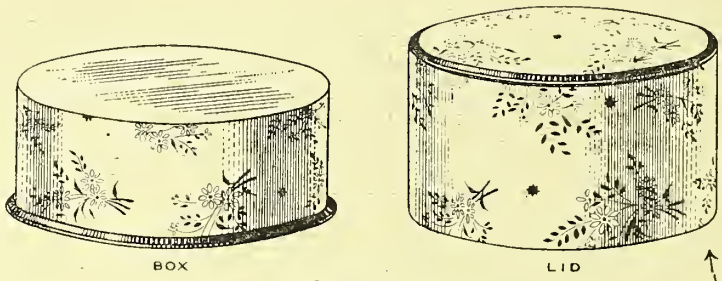
25's 2/- ; 100's 5/6 ; 500's 25/- ; 1,000's 45/- per bottle.

Write for Price List and Literature.

Evans

EVANS SONS LESCHER & WEBB, LTD.
LIVERPOOL & LONDON

BOXES THE BEST BUYERS BUY



No. 1.

Illustrated above is one of our new Face Powder Boxes, which are very pleasing and attractive. When filled these Boxes are absolutely powder tight and remain so until the parchment drum has been punctured by the purchaser. Samples and Prices gladly sent on request.

NOTE ITS GOOD POINTS

1 Flanged bottom which enables lid to be taken off easily. 1

2 Deep Lid which shows the attractive paper to advantage. 2

3 Transparent or Parchment Drum, making the Box powder tight. 3

4 Domed and Reinforced Top. 4

FACTORIES:

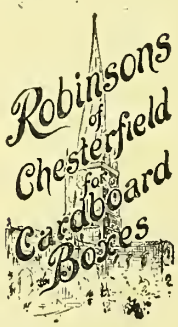
Wheatbridge Mills.
Holmebrook Works.
Walton Works.
Portland Works.

Telephone:
Chesterfield 2105.

Robinson & Sons, Ltd.

Manufacturers of Round, Oval, Square and Folding Cardboard Boxes,

Chesterfield & London



Telegraphic Address:
"Boxes, Chesterfield."

110-1

"Ayrton's for Drugs"

IN spite of industrial depression, Ayrton's have had a year of remarkable development. The enormously increased demand for their products has necessitated the installation of much extra plant and new processes. For sustained high quality and expeditious service Ayrton's is not excelled.

SEND US YOUR NEXT INQUIRY

— FOR —

CAPSULES
COMPRESSED TABLETS
CONCENTRATED WATERS
CONCENTRATED MIXTURES
CREMORS
CRUDE DRUGS
DECOCTIONS
EXTRACTS
EMULSIONS
ESSENCES
ESSENTIAL OILS
FINE CHEMICALS
GRANULAR PREPARATIONS
INFUSIONS
LIQUID EXTRACTS
OILS
OINTMENTS
PHOTO. CHEMICALS
PILLS
PRIVATE FORMULÆ
SYRUPS
TINCTURES

AYRTON, SAUNDERS & Co. Ltd.

34 Hanover Street - - - LIVERPOOL

BOVRIL

New Bonus Scheme starts this month

The new Bonus Scheme runs from 1st March, 1927, to 29th February, 1928, covering all purchases of Bovril and Invalid Bovril at List Prices made between these dates.

Retailers who wish to participate, but have not yet intimated their intention to do so, should *at once* write to the Company for full particulars and an entry card.

Bovril sales are again breaking records and retailers are advised to maintain a good stock of Bovril throughout 1927-8.

5%
on the Gross Value of the year's purchases

BOVRIL LTD., 148-166, OLD STREET, LONDON, E.C.1.

The "Chemists' Own"

RETAIL PRICES
1/- & 2/-
(P.A.T.A.)

Not supplied to the grocery trade.

The superiority of "Mineral Spring" is not a vague generality but something that can easily be recognised by Pharmacists and their customers. The prolonged effervescence, the crystal clear sparkle and the excellent keeping properties are points in which we welcome comparison with rival products. "Mineral Spring" is Kerfoot quality and Kerfoot quality is Chemists' quality.

Order now and let us send you the 1927 show material—free with orders for 4 doz. and up.

B 808

THOMAS KERFOOT & Co LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

Schimmel & Co., MILTITZ LEIPZIG.

SYNTHETIC FLORAL OILS

The pioneer work of Messrs. Schimmel & Company, beginning nearly a century ago, in the investigation of the chemical constituents to which living flower blossoms owe their *delightful fragrance*, finds its culmination in the oils comprising this group. They have been in widespread use for many years in perfume laboratories *throughout the entire world* and have successfully withstood the test of time. Basically the same, but modernized to keep pace with the progress made by continuous researches in the *world famous laboratories of Schimmel & Company*, they continue to yield the *same universal satisfaction* as in the past.

Stabilize Your Costs !

SCHIMMEL & COMPANY'S SYNTHETIC FLORAL OILS are always uniform in *strength* and in *quality*. The prices do not vary as do those of the natural flower oils.

Among the leaders and especially recommended for trial and comparison by you are

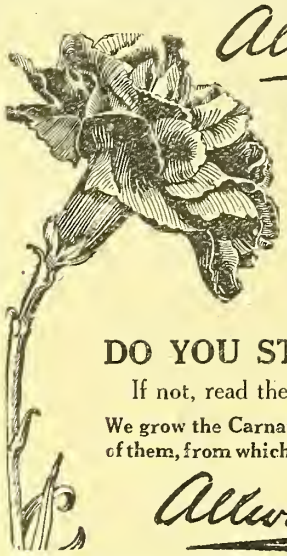
SWEET PEA
PATCHOULY
VETIVER
ROSE

WALLFLOWER
HYACINTH
VIOLET
NEROLI
LAVENDER
LILY of the VALLEY

YLANG-YLANG
CARNATION
JASMINE
LILAC

Sole Distributors for U. Kingdom: **Messrs. FREDK. BOEHM, Ltd., 15-17 Jewry St., London, E.C.3**

SCOTTISH OFFICE: 140 WEST GEORGE STREET, GLASGOW.



Allwood Bros

CARNATION PERFUME

Pot Pourri
Compressed Blooms
Silk Sachets
Toilet Soap
Bath Crystals

DO YOU STOCK THEM ?

If not, read the offer given below.

We grow the Carnations, endless thousands of them, from which the perfume is distilled.

Allwood Bros

THE LEADING CARNATION RAISERS & SPECIALISTS
HAYWARDS HEATH

SPECIAL OFFER

To a limited number of Chemists (one only in each Town) we are supplying our delightful Perfume on FULL SALE OR RETURN, with three months' credit. Write for particulars now.

M&R MAGNUS

MAGNUS, MABEE & REYNARD INC.

AMERICAN ESSENTIAL OILS

BAY	SPRUCE
CEDARLEAF	TANSY
CEDARWOOD	ERIGERON
PEPPERMINT	SPEARMINT
PETITGRAIN	WORMSEED

BALSAMS

ADDRESS:

MAIN SALES OFFICES
32 CLIFF STREET, NEW YORK, U.S.A.

Sole Selling Agents for the British Isles—
OLD STRAND CHEMICAL & TRADING CO., Ltd.
Audrey House, Ely Place - LONDON, E.C.1

FREE!

NEW PATENT SPRINKLER TOP

All standard white bottles of 'FARINA GEGENUBER' EAU DE COLOGNE ordered from this date will be fitted with an entirely new Patented Sprinkler Top. Get stocks from your wholesaler now.

FREE.

A delightful multi-coloured showcard as illustrated will be sent free to all stockists on application to the Sole Agents,

BLACKALLER & PLEASANCE

15, ST. GEORGE'S ROAD - LONDON, S.E.1

Telephone - RELIANCE 1588.

"B.G." Perfume Sprays Powder Bowls

OUR new Spring and early Summer models of Perfume Sprays and Powder Bowls have met with unprecedented success, surpassing even that of the amazing sales of our Pastel Bowls two years ago.

Spring and Summer with their wealth of flowers are reflected in our entirely new series of Powder Bowls in delicate pink, mauve, blue, orange, and yellow colourings.

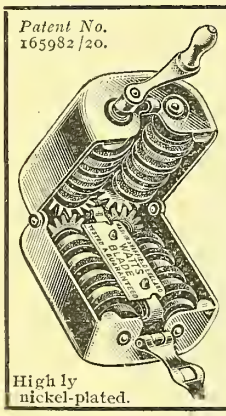
Pansies, Hollyhocks, Poppies, Narcissi, Violets, Lilies, Daffodils and innumerable other flowers are embraced in the designs.

Send for particulars and make a bold display this season.

BRIDGEN & GRIFFIN
25, Bartletts Buildings
Holborn Circus.

YOU ARE LOSING PROFITABLE TRADE IF YOU DO NOT STOCK "B.G." BOWLS.

Patent No. 165982/20.



High ly nickel-plated.

A REMARKABLE BRITISH INVENTION.

THE "SPIRO" SAFETY RAZOR BLADE SHARPENER.

Every user of the "Watts" Safety Razor Blades is a potential purchaser.

STRONG AND SIMPLE

No troublesome fixing. Drop blade on two pegs, close box, turn handle and get a super-keen blade in a moment.

Retails at 21/- each.

Allowing 50% profit on cost for the dealer.

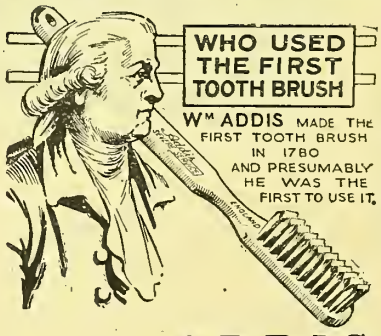
Sole Manufacturer:
JOHN WATTS, Lambert Works, SHEFFIELD.
London Office & Showroom:
18 Soho Square, W.1. *'Phone: Gerrard* 1306

BORONIA

THE NEW PERFUME FROM THE AUSTRALIAN FORESTS WHICH HAS PROVED SUCH A SUCCESS ON THE CONTINENT.

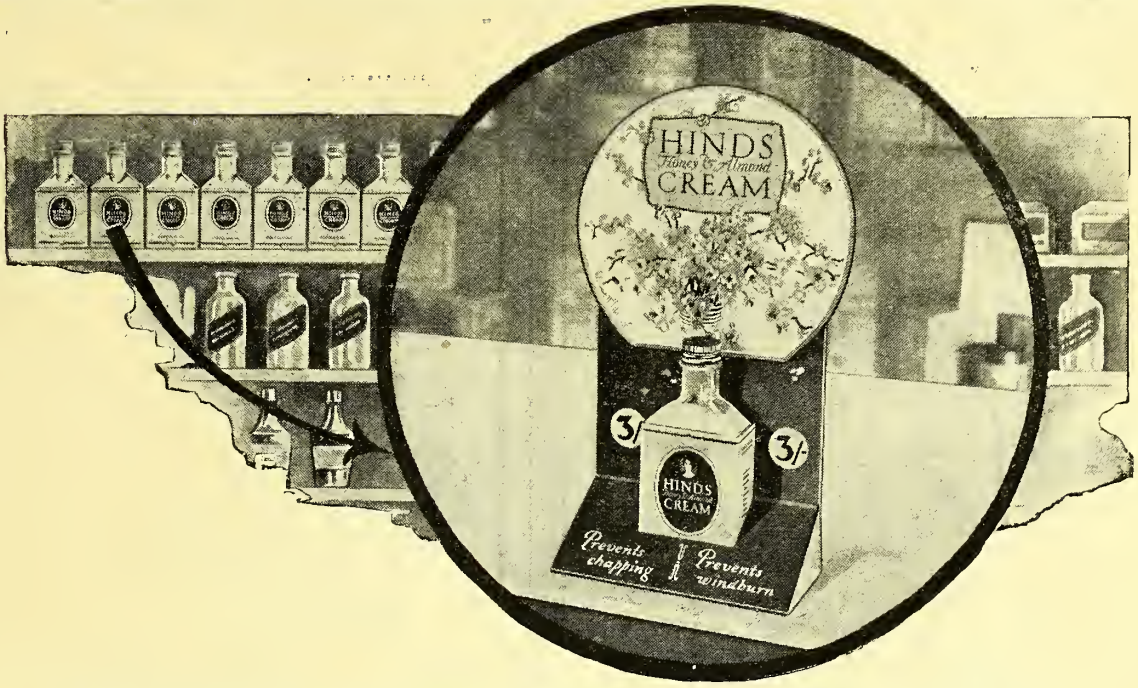
Sample Size 1/3 10/- Doz.
(10% for Window Display on Direct Orders).

E. N. BROMAGE & CO.
Perfumers and Importers,
73 SELHURST ROAD, LONDON, S.E.25.



Ask your Chemist or at any Branch of BOOTS for an ADDIS Tooth Brush, "PROPHYLACTIC" or "SEVERE SERVICE" and benefit by our century and a half of invention and manufacturing experience.

ADDIS
BRUSH WORKS, HERTFORD, ENGLAND.



Women want this superb cream

To cook, to countess — in fact, to every woman who reads a paper or magazine — Hinds striking advertisements are proclaiming the welcome news of an individual beauty now possible to all.

Rarely before can a toilet preparation have leaped into such instant favour as Hinds Cream.

Rest assured that once your customers' eyes light on a Hinds advertisement, they'll get Hinds Cream somewhere. Where shall it be?

Leave it to your window and counter. If they carry Hinds attractive free display helps, there's no doubt where the women will come. Have plenty of room in your till for the profits!

PRICES:

1⅛ oz.	8/- per dozen	P.A.T.A. 1/-
4½ oz.	24/- per dozen	P.A.T.A. 3/-

The 4½ oz. size is subject to 5 per cent. discount on all orders of three dozen and over.

HINDS
Honey & Almond
CREAM

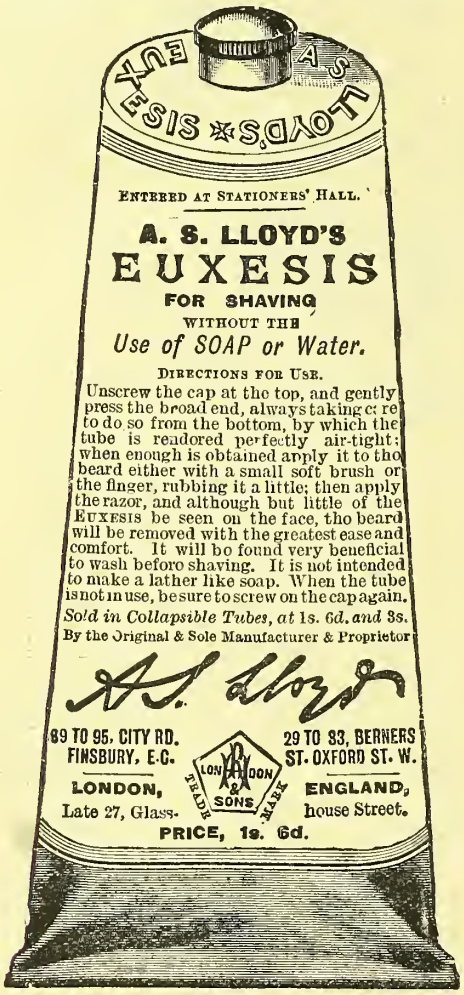
All orders delivered in London carriage paid. Provinces: Carriage paid on orders of £3 and over.

A. S. HINDS LIMITED (Successor), Kingston Road, S.W.20.

A. S. LLOYD'S EUXESIS

(THE GENUINE).

For Shaving without Soap, Water, or Brush.



Sold by all Perfumers and Chemists throughout the world.

R. HOVENDEN & SONS having purchased, under an administration suit, the business of the late A. S. LLOYD, with the Receipt, Trade-Mark, and Goodwill of the celebrated Euxesis, the **Trade are cautioned** that the original and genuine Euxesis is now manufactured at our Factory ONLY and may be obtained at either of our Warehouses.

PRICES ON APPLICATION.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as Illustration.

Proprietors: R. HOVENDEN & SONS, LTD.
LONDON: 89-95 City Road, E.C.1; and 29-33 Berners Street, W.1.

SOFT HANDS
WHITE HANDS
DRY HANDS

Spurway's

ORANGE & LEMON CREAM

for the hands

PREVENTS SUNBURN AND CHILBLAINS.

Checks Perspiration.

A beautiful non-greasy Cream exquisitely perfumed and packed in a highly artistic style.

SELLS AT SIGHT.
BRINGS REPEAT ORDERS.

An "All-the-year-round" Line

	1 doz. lots.	3 doz. lots.
1/9 size	14/-	13/-
1/3 ,,	10/-	9/-
10½d. ,, (sample size)	7/-	6/6

SPURWAY ET CIE.
LIMITED.
89 GREAT EASTERN ST., LONDON, E.C.2
Telegrams: "Neroli, London."
Telephone: Bishopsgate 1372.

Factories & Distilleries: Cannes-Grasse, Riviera.
Technical Laboratories: Paris.

NEW YORK. KINGSTON (ONTARIO).

A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

Now on P.A.T.A.

Minimum Retail, 1/6 and 3/- per tube.

CAUTION.

The Labels on GENUINE EUXESIS bear two signatures—A. S. Lloyd in Black Ink, and that of his Widow, Aimée Lloyd, in RED. Refuse any other.

Sole Manufacturers and Proprietors: **AIMÉE LLOYD & CO., LTD.**

23 PANTON STREET (formerly named Spur St.), HAYMARKET, LONDON, S.W.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

MRS. PARKER'S

QUIN-JULIP

"THE QUEEN OF HAIR TONICS."

Shows a nett retail profit of 1s. 8d. per bottle.
Sale or return.
Attractive Booklets, for counter display, sent on request.
Write J. HARLEY PARKER, Ltd., 117, St. George's Road, Belgravia, London, S.W.1. Established 1812.

An all-the-year-round Seller with good profits

This famous little device, quite the best form of strop on the market to-day, makes a strong appeal on account of its low price. In its handsome nickelled case, it only needs to be displayed on your counter to sell by the dozen—and every sale means **1/9** profit!

Salesmatter and particulars of this and other fast-moving Douglas Kirby lines on request. *Obtainable from your usual wholesaler, or direct:*

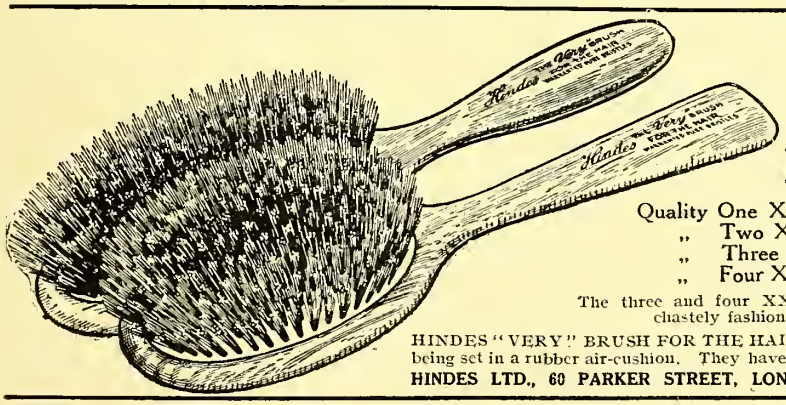
5/6 Retail Price

DOUGLAS KIRBY & CO., LTD., 9/10 CHARING CROSS, LONDON. S.W.1. *Telephone: Gerrard* 3147, 8063/4/5.
Glasgow - 47 *Oswald Street, C.1.*

TALCUM POWDER
FACE POWDER
VANISHING CREAM

Any Grade.
Any Colour.
Any Perfume.
Any Quantity.

All Merchandise in Bulk or in your own Containers.
The O-PINE-O Manfg. Co. Ltd., Montague Rd., Hornsey, London, N.8



HINDES "VERY" HAIR BRUSH

Quality One X	Sold at	7/6d.	each.	TRADE PRICE 33⅓%
" Two XX	"	10/6d.	"	
" Three XXX	"	15/-	"	
" Four XXXX	"	18/6d.	"	

The three and four XXXX grade is made in Ebony or Rosewood chastely fashioned in both oval and circular bodies.

HINDES "VERY" BRUSH FOR THE HAIR is guaranteed pure bristles, the multiple tufts being set in a rubber air-cushion. They have been known to the trade for nearly 40 years.
HINDES LTD., 60 PARKER STREET, LONDON, W.C.2. :: *Works:* **BIRMINGHAM**

MERCOLIZED WAX

— : for the Complexion : —

and

STALLAX

— : a Shampoo : —

TWO substantial and well-advertised lines which show a handsome profit to the Retailer, and, moreover, may be stocked fearlessly owing to the Manufacturers' most liberal Sale or Return Guarantee.

Both are obtainable in two sizes, and their reputation and sterling value assure a steady turnover.

Order through your Wholesaler, or direct from:

DEARBORN (1923) LIMITED

37 GRAY'S INN ROAD, LONDON, W.C.1.

The "PEANCO" & "BRIDGEWATER"

NON-INFLAMMABLE.

WATER WAVING COMBS

British Patent No. 240,377.
Patented in all Countries.

NON-INFLAMMABLE.

HOW TO PLACE "PEANCO" COMBS IN HAIR.
Note the 2 clips.

No. 1. 3½ inch. No. 3. 4½ inch.
No. 2. 4 ,, No. 4. 5 ,,

8/9 doz. pairs. Boxed dozens.

THE SALES TO DATE HAVE EXCEEDED

2,000,000 Pairs 2,000,000 Pairs

Two Million Pairs

The special purpose of this Advertisement is to invite all Retailers to send to the Manufacturers for the two

New Show Cards

FREE OF CHARGE AND POSTAGE FREE.

REALLY WORKS OF ART

HOW TO PLACE "BRIDGEWATER" COMBS IN HAIR.
Note the 3 clips.
Length 10 inches for long waves.

12/9 doz. pairs. Boxed dozens.

Obtainable from—

MAY, ROBERTS & CO., LTD., 7 Clerkenwell Rd., E.C.1; BARCLAY & SON, 95 Farringdon St., E.C.1; SANGERS & CO., LTD., 42a Hampstead Rd., N.W.; F. H. GALLOWAY & CO., LTD., 162 Walworth Rd., S.E.; BUTLER & CRISPE, LTD., 80 Clerkenwell Rd., E.C.1; FRANCIS NEWBERY & SONS, LTD., 27 Charterhouse Sq., E.C.1, and all Wholesale Chemists and Druggists.

Manufacturers and Suppliers to the Wholesale only.

PARKER & CO. (London) LTD. 4/5 BRIDGEWATER SQUARE, LONDON, E.C.1.

Coty

Parfums de Luxe

IN 1926

the different Coty organisations and associated companies throughout the world sold altogether 18,000,000 boxes of the famous COTY FACE POWDER

Series 060. Retail Price, **2/6**
„ 061. „ „ **4/-**
LESS 40%.

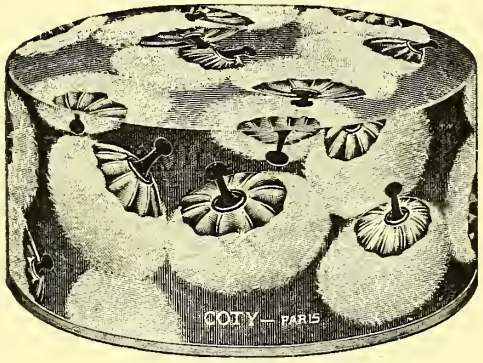
Be ready for our coming Advertising Campaign.

We are often asked . . .

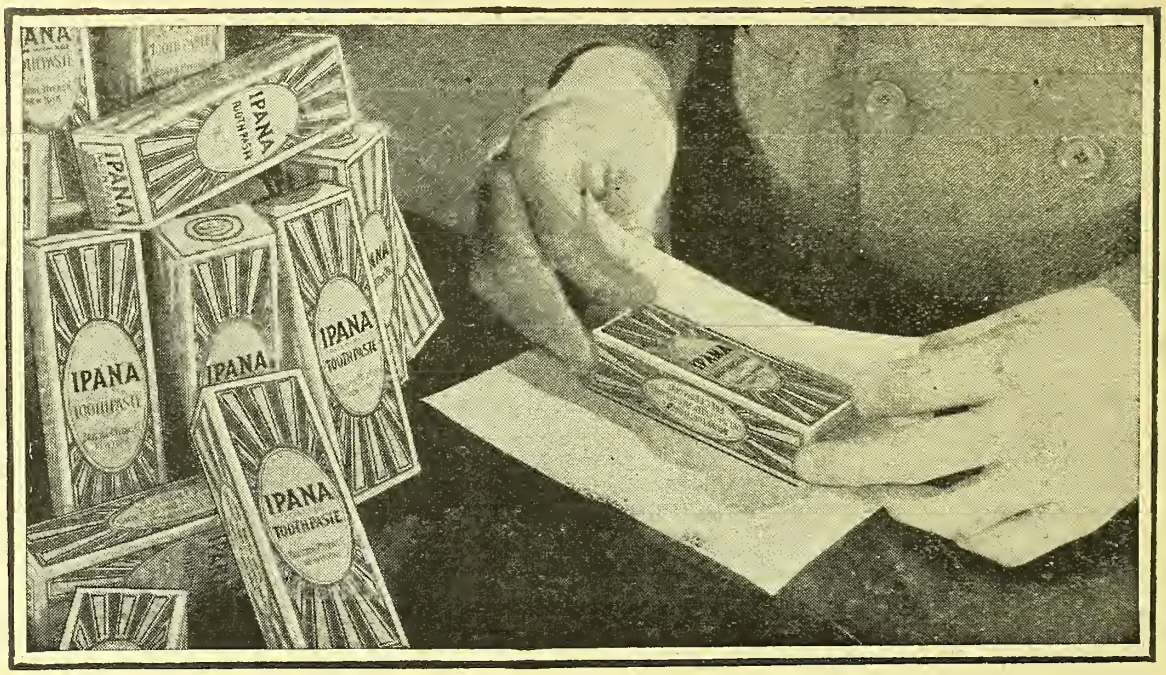
by customers and friends the reason for this almost incredible result (more so if one takes into consideration the fact that all Coty Creations are sold in adequate proportions). The answer is very simple indeed. There is no Powder in the world so beautifully prepared, so perfectly perfumed, so attractive in its presentation—at the present state of the science of perfumery nothing better has been conceived. Certainly there are ladies who will tell you that Coty Powder does not suit their complexion or their type, but the fact remains that it suits an enormous majority.

Then from the *Dealers'* point of view. Here is a line which sells quickly without any trouble at a handsome profit, and which will bring back a satisfied customer ready to buy other Coty Specialities, because, as Monsieur Coty says, his powder is the surest advertisement for his perfumes.

Why not concentrate more on this wonderful line and make the most of it with the least trouble ?



COTY (England) LTD., COTY HOUSE, 3 STRATFORD PLACE (Opposite Bond Street Station, LONDON, W.1.)



Everywhere—
new customers for this tooth paste

Extensive advertising, supported by the recommendation of experts, now is creating a demand greater than ever before!

PLEASANT flavour — attractive packing — once this was all the average customer looked for in a tooth paste.

But to-day — with medical and dental authorities everywhere urging the better care of the teeth — with new interest awakened, through discussion in newspapers and journals, in the problems of oral hygiene — people expect something more of the tooth paste they use.

More and more people choose this tooth paste because of its efficiency

That is why, today, more and more people take to Ipana — a tooth paste that actually protects the teeth because it keeps the *gums* healthy.

Ipana is smooth, gritless, pleasantly flavoured. Unlike other dentifrices, it contains ziratol, an antiseptic-haemostatic that "conditions" the gums, keeps them braced, prevents recession.

The splendid qualities of Ipana, advertising is making known to thousands of people all over the country. The advertisements (which appear in the most widely read magazines) explain the cause of dental decay — show why Ipana, unlike ordinary dentifrices, is able to prevent and check it, to safeguard the teeth.

Dentists everywhere use and recommend it

Dentists everywhere are testing Ipana, using it for the treatment of weakened gums, recommending it, too, for regular daily use in preference to all other dentifrices.

Let Ipana help to build your tooth paste sales! Get your share of the profits on this reliable line. Many people in your district are already interested in Ipana. Let them know that you stock it!

Order Ipana today from us or from your regular P.A.T.A. wholesaler. Read here the particulars of our generous display terms. Bristol-Myers Company, 112 Cheapside, London, E.C.2.

Special Display Terms

We offer you three parcels on special display terms! On parcel Number 1 you will make 74% on your original investment—69% on Number 2 — and 65% on Number 3.

PARCEL No. 1

(6 dozen tubes at a discount of 10% for window display)

The public pays you	£5 8s. 0d
You pay us . .	£3 2s. 1d
Your profit is . .	£2 5s. 11d

or 74% on your investment

PARCEL No. 2

(3 dozen tubes at a discount of 7½% for window display)

The public pays you	£2 14s. 0d
You pay us . .	£1 11s. 11d
Your profit is . .	£1 2s. 1d

or 69% on your investment

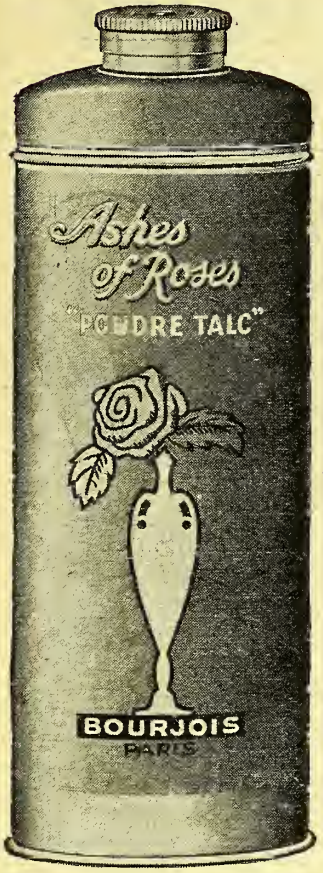
PARCEL No. 3

(1 dozen tubes at a discount of 5% for window display)

The public pays you	£0 18s. 0d
You pay us . .	£0 10s. 11d
Your profit is .	£0 7s. 1d

or 65% on your investment

The regular price of Ipana to you is 11/6 a dozen. Six dozen would ordinarily cost you £3 9s. 0d., three dozen £1 14s. 6d.



Fine!

Two fine new lines :

Ashes of Violets Poudre Talc and *Ashes of Roses* Poudre Talc—in tall ovals.

These new oval packs are fine in their tall and stately appearance, fine in their rich effects—violet and gold, and green and gold and red ; they look fine on the counter, and finer on my lady's dressing table. The finest and most delicately scented talc on the market shakes through the best and most practical sprinkler top. Send your order to-day for these fine new lines.

HOW TO ORDER. **Per doz. P.A.T.A**

Ashes of Roses No. 2646 6-doz. lots **8/-** } **1/-**
Ashes of Violets No. 2644 6-doz. lots **7/6** }

Ashes of Roses and Ashes of Violets TALCS

This newest packing of Poudre Talc is meeting with a wonderful reception by Trade and Public.

A. BOURJOIS ET CIE, LTD.,
4 Water Lane, Blackfriars, London, E.C.4
PARIS NEW YORK SYDNEY WELLINGTON

A Name that Merit has made Famous

"HARLENE-HAIR-DRILL".

NEW DEVELOPMENT

Edwards' Harlene Ltd., wish to inform their friends in the Trade about

Three New Lines

which will be QUICK SELLERS.

A Big Advertising Campaign is now being arranged for the following :—

"HARLENE" Cleansing and Revivifying HAIR FIXATIVE (for Gentlemen)

"HARLENE" WAVE-SETTING LOTION (for Ladies)

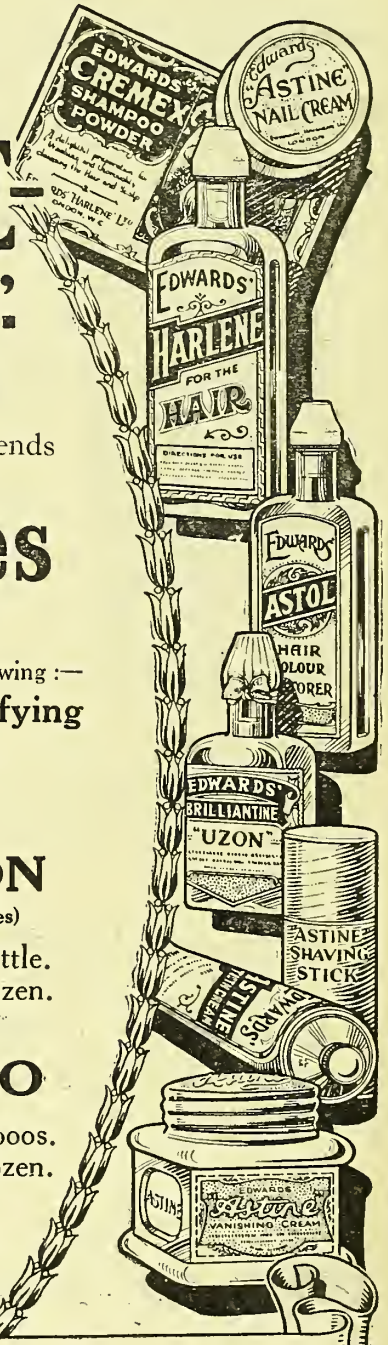
Price of both of above { Advertised (Minimum Retail) **1/3** per bottle. Makers' ... . **13/4** per dozen. Less 20% Discount.

"CREMEX" DRY SHAMPOO

Advertised (Minimum Retail) **1/6** per box of 7 Shampoos. Single Packets **3d.** each. Makers' **15/10** per dozen. Less 20% Discount.

Be One of the First in your District to get this Trade.

PLACE YOUR ORDER TO-DAY.



For Full Particulars, Terms, etc., write to :—

EDWARDS' HARLENE LTD. 20, 22, 24, 26 LAMB'S CONDUIT STREET - - LONDON, W.C.1.

HOW CAN YOU FAIL TO SELL SUCH A GOOD PRODUCT AS MOORLAND HEART SHAPE WHEN YOU GET ALL THIS WITH A ONE GROSS ORDER?

Everything—except the vase and flowers.

Ask us to send you details of our advantageous buying terms

W. B. CARTWRIGHT LTD., RAWDON NEAR LEEDS

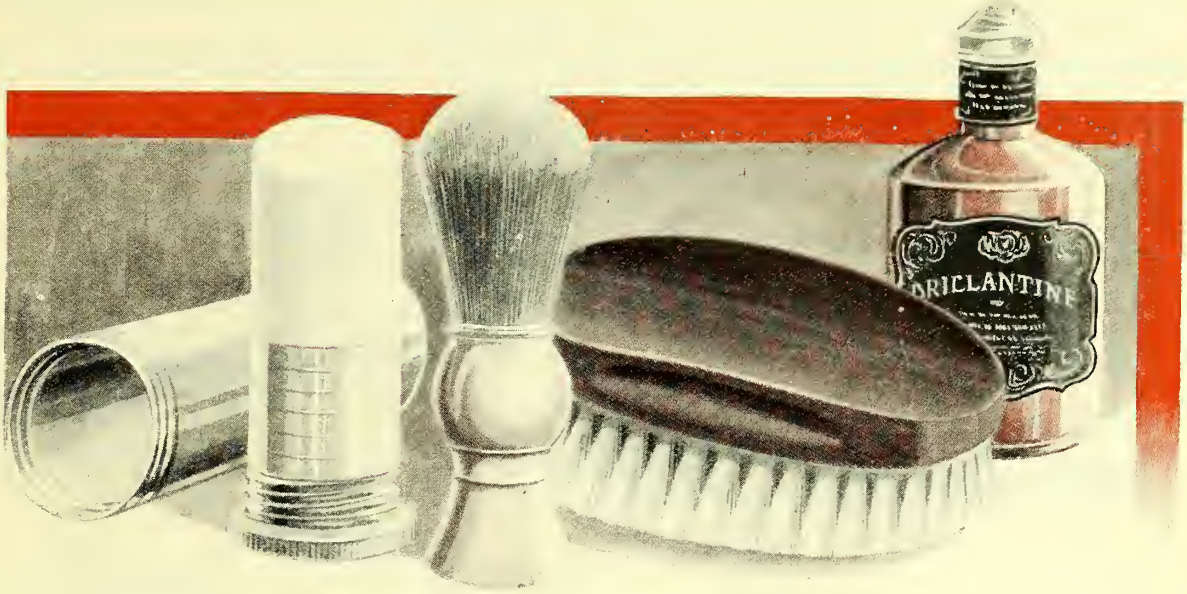
B B

Nearly

4,000,000

buyers of this class of goods every week

get the "News of the World"—and this great Sunday Journal is probably read by one in every four of the population of the British Isles. They are drawn from every phase of society interested in everything from an expensive manicure set to a packet of safety razors. No other medium can offer the manufacturer of a toilet speciality such wide publicity at so little cost—as low as ¾d. per thousand copies.



DOES not the advantage of being able to tell nearly 4,000,000 people all at the same time about the merits of your goods and specialities appeal to you as a sound business idea?

Many of the most successful manufacturers of toilet requisites for men and for women have used the "News of the World" to build their businesses.

This great Sunday Journal completely covers the country and will take your message into every town, village and hamlet, however small, throughout these islands.

And your retailers will be the first to tell you how effective "News of the World" publicity is, how greatly it helps their sales. Remember that to-day advertising is the cheapest form of selling and the public prefer advertised goods.

This is a sound sales idea. Think it over carefully and then talk over your particular proposition with the Advertisement Manager of the—

NEWS OF THE WORLD

A Complete Advertising Campaign in Itself

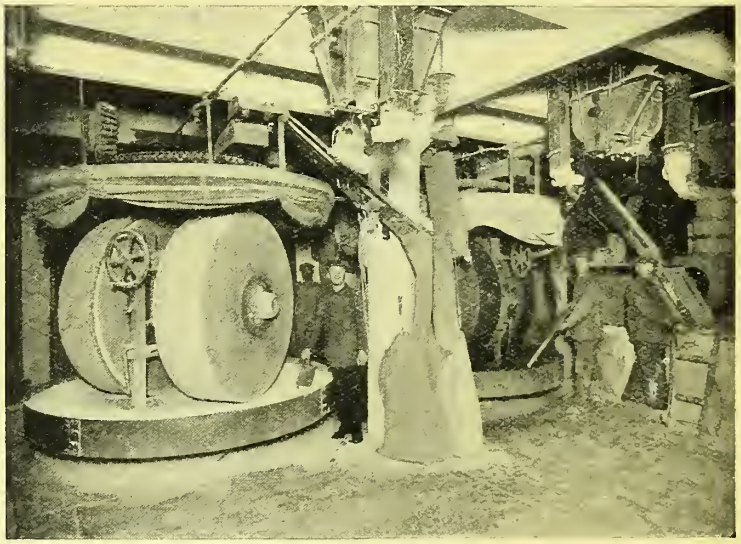
BOUVERIE STREET
LONDON——E.C.4

Britain's Favourite Flavour

PEPPERMINT has been called Britain's favourite flavour. At all events, it ranks high with Lemon and Vanilla and its popularity is evidently growing, considering the many confections now on the market, as well as a number of dentifrices flavoured with Peppermint Oil. One instantly associates Peppermint with the name "StaffAllenS," the firm having specialised in the cultivation and distillation of English Mint for more than 80 years. The illustration shows the harvesters at work on a plantation at Long Melford. The Company also import natural oils from abroad, and the large distillery at Cowper Street, E.C.2, is always busy rectifying, blending and grading a comprehensive range of Peppermint Oils.

An Old Tradition

IN 1833, *Stafford Allen* brought a tradition into Drug and Spice grinding; the tradition of "purity of product." Before that time adulteration was calmly accepted as a custom of the trade (*see "StaffAllenS Products," page* 6). Here we show just a small section of the mills. The Company have now more than 100 independent grinding machines, each with its appropriate sifting apparatus. Though the plant has been modernised, a thorough examination of any of "StaffAllenS" Powdered Drugs or Spices convinces one that the old tradition of "purity of product" has been worthily maintained.



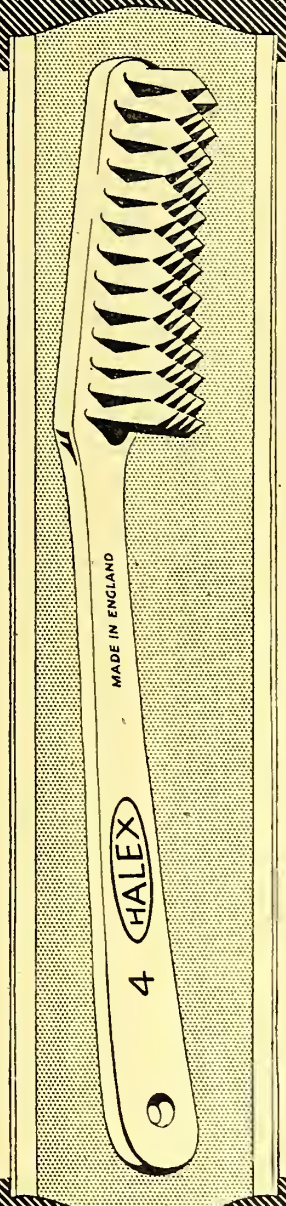
10,000 Varieties of Labels

AT least 10,000 varieties of labels are used in packing "StaffAllenS" products. This fact gives some idea of the firm's activities. The photograph on the left shows a department devoted to packing Essential Oils and Essences. The Packing Factory is a thoroughly modern one, being on the one-floor principle and is equipped with every necessary appliance.

The foregoing illustrations are taken from a brochure entitled "StaffAllenS Products" issued by Stafford Allen & Sons, Ltd., of Cowper Street, Finsbury, E.C.2. Wholesale buyers who have not already seen this interesting booklet may obtain copies on application to the Company.

STOCK THE TOOTHBRUSH WITH THE BIG DEMAND

Your Profits are generous- 60% on cost



HALEX toothbrushes are just as acceptable to the chemist as they are to the public. The public like them because there on the counter, from a single display case, they can pick and choose to their heart's content—every pattern, colour and price.

The chemist likes them for the same reason—they're so easy to sell. Customers who "want a toothbrush, please" never trouble to look further than the famous Red and Gold Display Case. They find the very brush they want at the price they want to pay.

If you don't already sell Halex send for particulars of our remarkably interesting Introductory Parcel offer. The majority of British chemists have already ordered this splendid and profitable assortment.

HALEX

SIX PATTERNS
SIX PRICES
SIX COLOURS

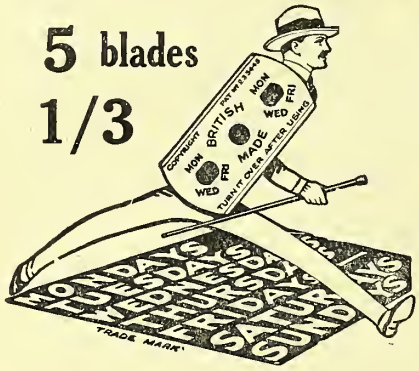
The Introductory Parcel contains 4 dozen assorted Halex toothbrushes, the glass-fronted Display Case and a supply of Display material. It costs **40/-** inclusive and brings you **60 %** on cost. Please order through your usual wholesaler.

THE BRITISH XYLONITE CO. LTD., HALE END LONDON

C C

Naturalised — or British Born ?

5 blades
1/3



MADE IN ENGLAND
—BY—
W. J. MYATT & CO., LTD.
Graham Street, BIRMINGHAM.

There are two kinds of British Blades: the sort that were hastily naturalised when a tariff was declared, and Myatt's that were born and bred in Birmingham. The demand for Myatt British Blades grows because they are Daymarked. Every blade is engraved with the days of the week so that each edge is used in turn. Advertising sells Myatt Daymarked Blades—all you need do is to show them. Send to your wholesaler for a trial supply.

MYATT

PATENT DAYMARKED SAFETY RAZOR

BLADES

(For Gillette-type razors only)

REDUCED AGAIN ! !

Gillette Blades
28/6 per box.
28/- in 10 box lots.
27/6 „ 50 „ „
Less 2½% FOR CASH.

DARWIN 3/- per 4/6 box (10)
1/6 „ 2/3 „ (5)
29/3 Nett Cash per Box.

VALET 36/- Box
34/3 for 3
Send for Razor & Accessories List

EVER-READY 31/- Gross
2/8 Dozen

SOUPLEX 10d. per 1/3 Pkt (5)
1/8 „ 2/6 „ (10)
19/- Box (120) NETT CASH

SEND FOR COMPLETE PRICE LIST.

STAMBOIS SAFETY BLADE SERVICE
7 Charterhouse Blds., London, E.C.1. Clerkenwell 3518.
34 Call Lane, LEEDS. Phone: 25946.
11 Fishamble St. DUBLIN. Phone: 4625.
60 Donegall St. BELFAST. Phone: 7045.
52 Howard St. GLASGOW. Phone: Central 1159.
STOCKS KEPT AT THESE DEPOTS.

SHADEINE
For COLOURING GREY HAIR
This popular article is largely advertised and stocked by all Wholesale Houses.
Trial size 8d. per doz. 6/-
1/4 size, per doz. 12/-
2/6 size, per doz. 24/-
3/9 size, per doz. 36/-
The SHADEINE CO., 58 Westbourne Grove, London, W.2.

GREY HAIRS
← *appear just here.*
TOUCH THEM UP WITH
TATCHO-TONE
and they will instantly recover their natural shade. Medical Guaranty with each bottle. Chemists' Prices 2/6 and 4/6
Trial Phial 8D *Post Free*
TATCHO-TONE CO., 5 Great Queen Street, London, W.C.2

SYNTHETIC OTTOS

VERY ECONOMICAL ON ACCOUNT OF THEIR STRENGTH

Suitable for all Toilet Preparations

	Per oz.		Per oz.
CARNATION	7/6	MELOTA	10/6
HYACYNTH	7/6	ORANGE BLOSSOM	7/6
JASMIN	9/-	ROSE	12/6
LILY OF THE VALLEY	7/6	SWEET PEA	12/-
		PARMA VIOLET	10/6

E. H. BUTLER & SON MANUFACTURING CHEMISTS
Humberstone Gate - - LEICESTER

ROWLAND'S MACASSAR OIL

A line it pays to stock.
P.A.T.A. 3/6, 7/-, 10/6.
THROUGH ALL WHOLESALERS.
A. Rowland & Sons, Ltd.
112 GUILFORD STREET, LONDON, W.C.1.

"Wardonia"—The Blade that Shaves and—SELLS.

SPECIAL BONUS SCHEME

"WARDONIA"

WORLD-FAMOUS

RAZOR BLADES

1/3 FOR FIVE

FOR 2 MONTHS ONLY

APRIL 2nd TO MAY 31st

80% PROFIT

BONUS SCHEME

	COSTS	SELLS
5 BOX LOTS - -	£5 0 0	£7 10 0
1 doz. 2/6 Shaving Brushes Free		£1 10 0

COSTS YOU **£5-0-0** *SELLS FOR* **£9-0-0**

ONE DOZEN 2/6 "WARDONIA" BRUSHES GIVEN FREE WITH EACH 5 BOX LOTS OF "WARDONIA" BLADES

ORDER NOW Say whether 5, 10, 15, or 20 Boxes required.

POINTS TO REMEMBER

"WARDONIA" BLADES—
Sell to the Public—3d. each, 1/3 for 5.
Costs You—20/- Box of 120 Blades.

Prices Strictly Maintained.
The Same Everywhere.
Every Blade Guaranteed.

SELLING HELPS

"Wardonia" Showcards in Red, White and Blue bring immediate Sales. Special Show Material for Window Displays.

"WARDONIA" BRUSHES—
Cost you 20/- doz. Retail at 2/6 each.

ORDER NOW through your usual Wholesaler or direct from:—

Thomas Ward & Sons, Ltd.

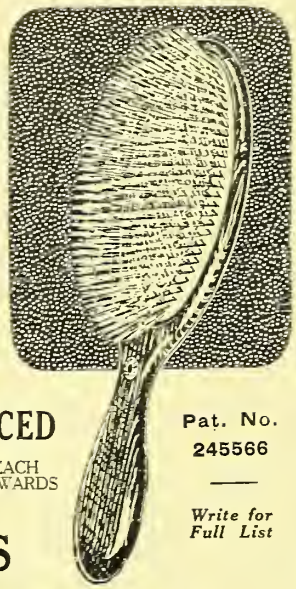
CUTLERY AND RAZOR BLADE MANUFACTURERS,

Wardonia Works, Sheffield, Eng.

TO WHOLESALERS: PLEASE WRITE US FOR FULL DETAILS.

THE
World's Best
HAIRBRUSH

LILY BRISTLES
POLISHED WHITE
RUBBER CUSHION



PRICES REDUCED
TO RETAIL AT 5/- EACH UPWARDS

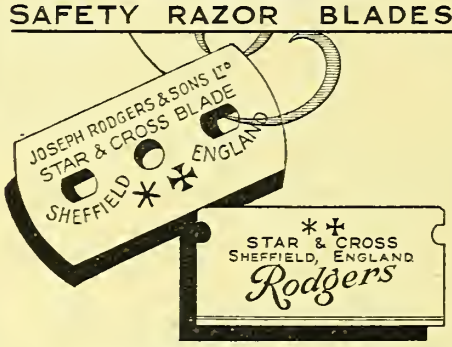
Pat. No.
245566

Write for Full List

RIGBY'S
KLENLY

Sole Manufacturers and Patentees :— RIGBY BATTCOCK, LTD.
Mount Pleasant Works, Upper Clapton, London, E.5
SHOWROOMS :—28 MUSEUM STREET, LONDON, W.C.2

Rodgers
SAFETY RAZOR BLADES



Not until Joseph Rodgers & Sons Ltd. felt convinced that they were offering a better blade than made by any other firm in either hemisphere were they prepared to stamp their blades with their name and the "Star and Cross" mark. They are now offering blades of both the Gillette and Auto-Strop types.

Controlled Selling Price 3/6 per dozen.

JOSEPH RODGERS & SONS LTD.
Cutlers to His Majesty. 6 Norfolk Street, SHEFFIELD

TRADE MARK GRANTED 1682

CAPSOL
DYE

NOTICE TO CHEMISTS

AN IMPROVED PRODUCT TO PLEASE YOUR CUSTOMERS

CAPSOL DYES

are now manufactured and packed in an entirely new form. They cannot be affected by heat or damp; the hands do not come in contact with the dyestuffs; they do not stain the hands or utensils; they will dye ALL materials.

This wonderful improvement is offered without any increase in price. Test it yourself, free of cost.

Samples and Trade Terms sent on application to :—

Capsol Products Ltd., Blackpool
OR
ROBERT W. PHILLIPS, LTD.
CRAVEN HOUSE,
KINGSWAY, LONDON, W.C.2
Sole Agents for England (South of Lancashire and Yorkshire) and Wales.

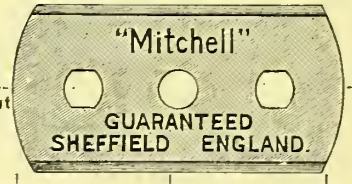
PASTA
MACK

A Delightful Necessity
For BATH & TOILET
Perfumes the Skin.
PASTA MACK 3/8 size 28/- per doz. Boxes (Each containing 8 Large Tablets).
2/- size 16/- per doz. Boxes (Each containing 8 Small Tablets).
Agents: WM. EDWARDS & SONS, 14-18 Nile Street, City Road, London, N.1.
Makers: H. Mack Succrs.; Ulm O/D.
'Phone: Clerkenwell 5230, 5231, 5232.

DEVILBISS
SPRAYS
MEDICAL — and — PERFUME

27 Old Bond Street, London, W.
GERRARD 6867.

BRISTLES WITH STRONG POINTS.



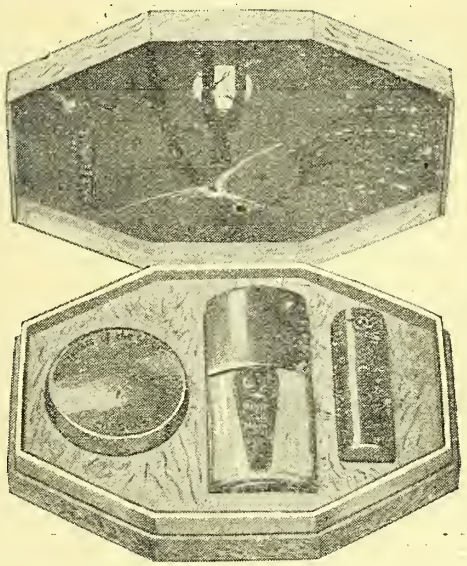
Sheffield Throughout
Popular Price

Lasts Longer Wonderful Edge Every Blade Guaranteed

THE "MITCHELL" BLADE
1/6 for 6 (Made in Gillette and Autostrop Patterns) 50% Profit for You. WE SUPPLY 3/- for 12
TESTIMONIALS THAT TELL. SHOWCARDS THAT SELL.
R. S. MITCHELL, Unity Works, Langsett Rd., SHEFFIELD.

"MISTS of the MOON"

en suite



BEAUTY COFFRET, as illustration, containing Compact Face Powder, Purse Perfume and Lipstick. Retails at **5/-** per case.

THE perfume and packing of "Mists of the Moon" are alike the creation of an artist. Every article perfumed with this rare odour embodies the research of expert chemists and has only been adopted after meeting the most exacting requirements. The exquisite packing of cream and blue with moonlit picture is unique, and "Mists of the Moon" is destined to win a name with every woman of good taste and discernment.

PERFUME	DAY or NIGHT CREAM
POUDRE COMPACT	LIP STICK
BATH CRYSTALS	TALCUM POWDER
COMPRESSED BATH CRYSTALS	TOILET SOAP (in 3 tab. boxes)

COFFRETS (in various combinations)

CUSSONS' LINES SHOW THE PHARMACIST 33⅓ to 40% PROFIT

KERVALLI BRILLIANTINE DE LUXE

PUT UP IN GLASS JAR EACH WRAPPED IN CELLOPHANE

A superfine preparation which is in great demand

RETAILS AT **1/-**

"WHITE CROSS" BABY POWDER

An antiseptic, highly emollient, very finely milled Baby Powder—a great favourite with the Nursing Profession. Put up in decorated tins with sprinkler tops and packed in smart counter display show outers. Selling price **10½d.** tin (P.A.T.A.).

CUSSONS, SONS & CO., LTD.

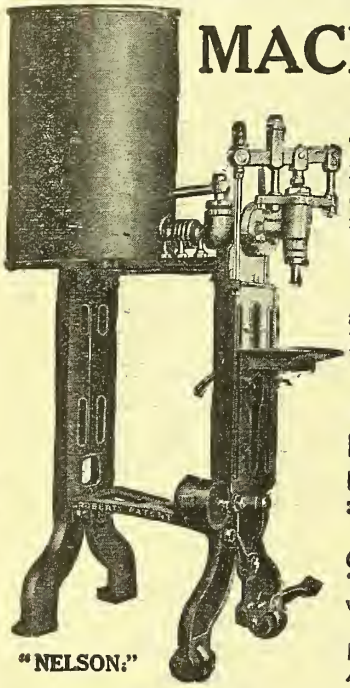
PERFUMERY & SOAP MANUFACTURERS

LONDON SHOWROOMS:
Norwich House, Southampton Street, High Holborn, W.C.1.

REGISTERED OFFICES & FACTORY:
Kersal Vale Works, MANCHESTER.

ROBERTS' ORIGINAL PATENT

BOTTLE-FILLING MACHINES



"NELSON."

Don't waste money on imitations, buy Roberts' Machines which actually Created the Records for

CLEANLINESS SIMPLICITY

and Rapidity in Bottle Filling.

Write for new Price Lists.

NOTE the Address:

ROBERTS' PATENT FILLING MACHINE CO.
33 ROUNDCROFT ST. BOLTON.

Our latest patent "Alpha," price £12, will fill 10 gross bottles per hour.

Write for Particulars.
All Rights Reserved.

Ready for Your Agfa Customers ?

This year the demand for Agfa products will be greater than ever.

More extensive advertising is going to greatly increase the circle of Agfa users. Will you be able to get your share of the business ?

See you are fully stocked up. Feature Agfa prominently in your window-shows. Keep them linked up with our advertising. If you would like details, let us know.

Agfa

91 New Oxford St., London, W.C.1

Tele.: MUSEUM 4038.

S.R.S.

FINEST QUALITY ENLARGEMENTS
1/1 plt. 1/6] **at the lowest prices.** [10×8 2/3
SEND FOR COMPLETE LIST.

POSTCARD ENLARGEMENTS
PER RETURN OF POST.
2/- for 12. **1/3** for 6. **3d.** for single.
OFF ONE NEGATIVE.
SPECIAL WINTER ADVERTISING SCHEMES FOR REGULAR CUSTOMERS.

The Eagle Photographic Service
12 WOOD STREET - SWINDON, WILTS.

DEVELOPING, PRINTING & ENLARGING

GOOD QUALITY AND GOOD SERVICE

We invite clients to inspect our factory and see for themselves the system under which we work.

WRITE FOR PRICE LIST.

C. WOOLLONS M.P.S.
Photographic Developing & Printing,

Manor Works, ACTON LANE, HARLESDEN, N.W.10
(Two minutes from Jubilee Clock.)

BEGIN THE SEASON WELL
SEND YOUR WORK TO

Bailey's

Expert PHOTO SERVICE

Reliable for Speed and Quality →

FILMS RECEIVED FIRST POST DEVELOPED, PRINTED AND DESPATCHED SAME DAY.
64 High Street
Highgate Village
London, N.6
TELEPHONE: 0663 MOUNTVIEW.

MANY SUCCESSES IN THE EXAMINATIONS
Your Opportunity to

QUALIFY IN OPTICS

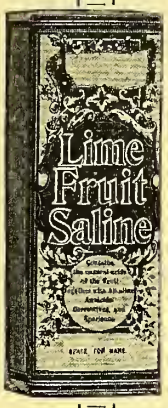
PRACTICAL WORK. Students taking the course may receive personal tuition in the practical work AT ANY TIME DURING THE COURSE.

Expert Tuition for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optical Association (F.B.O.A.); the National Association of Opticians (F.N.A.O.); or the College of Optics (F.C.O.).

Write for full particulars—

C. A. SCURR, M.P.S., F.S.M.C., F.B.O.A., F.N.A.O., B.Sc., F.I.O., F.C.O.
50 HIGH STREET, BARNET, LONDON, N.
S.A. Representative: E. E. G. WOOLLEY, F.S.M.C., M.P.S., c/o H. Neil & Co. 215 Bree St., Johannesburg.
N.Z. Representative: R. C. AITCHISON, Box 158 PALMERSTON, North.

Lorimer-Marshall, Ltd. *for* PACKED GOODS



Granular Effervescent Citrate of Magnesia
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Will commence in April

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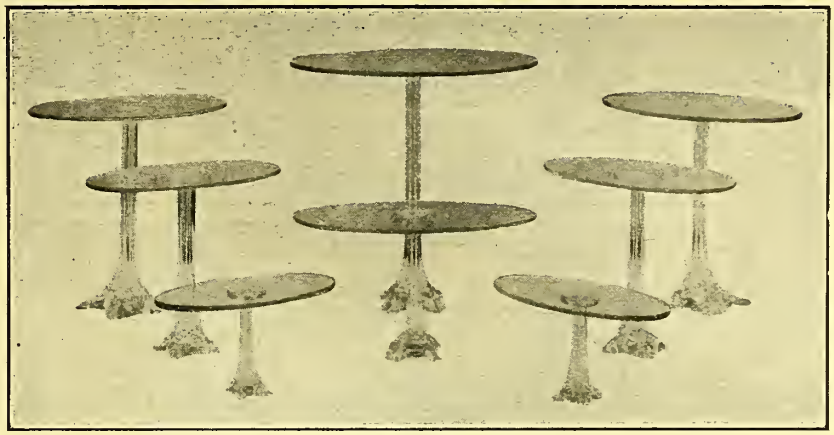

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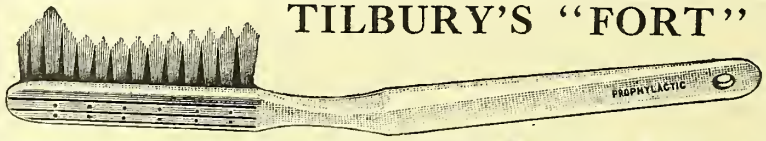

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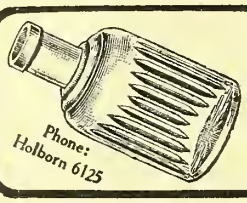

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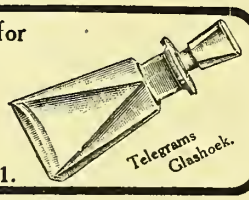

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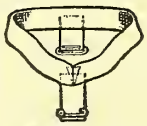

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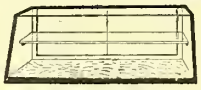

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128% PROFIT!

FOR A SHORT PERIOD THE FOLLOWING SPECIAL TERMS—ON CONDITION THAT YOU FEATURE B & B LYSOL—ARE OFFERED FOR WINDOW-SHOW

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			P.A.T.A. Prices.	£	s.	d.
6 Doz.	4 oz. (1/-) size	@	6/6	1	19	0
[illegible]	" " "	FREE	—		—	
[illegible]	8 oz. (1/6) "	@	12/-	1	16	0
[illegible]	" " "	FREE	—		—	
[illegible]	16 oz. (2/6) "	@	21/-	1	1	0
[illegible]	" " "	FREE	—		—	
				4	16	0
	Less 15% for Display				14	5
				4	1	7
	Less 2½% monthly a/c				2	0
	NETT OUTLAY			3	19	7
	Parcel sells for			9	2	0
	NETT PROFIT			£5	2	5

YOUR PROFIT ON AN OUTLAY OF £3 : 19 : 7 = 128%.

THIS EQUALS 56% OF YOUR SALE.

PARCEL "B"

			P.A.T.A. Prices.	£	s.	d.
3 Doz.	4 oz. (1/-) size	@	6/6		19	6
[illegible]	" " "	FREE	—		—	
1 "	8 oz. (1/6) "	@	12/-		12	0
[illegible]	" " "	FREE	—		—	
[illegible]	16 oz. (2/6) "	@	21/-		10	6
[illegible]	" " "	FREE	—		—	
				2	2	0
	Less 10% for Display				4	2
				1	17	10
	Less 2½% monthly a/c					11
	NETT OUTLAY			1	16	11
	Parcel sells for			4	0	6
	NETT PROFIT			£2	3	7

YOUR PROFIT ON AN OUTLAY OF £1 : 16 : 11 = 118%.

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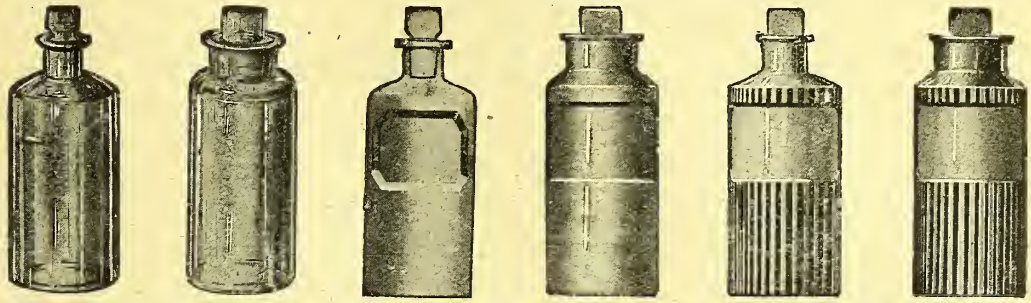

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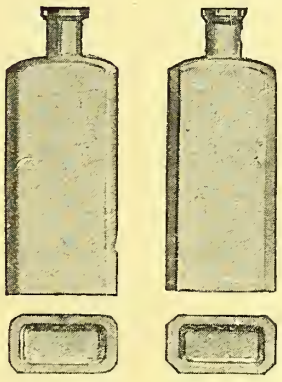

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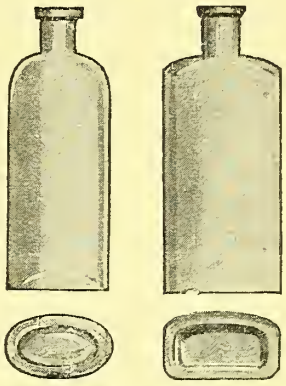
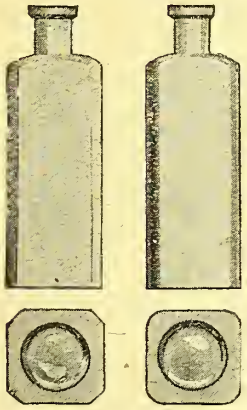
DISPENSING BOTTLES—

accurate in Capacity, free from arsenic and lead, and handsome in appearance. The aristocrats of bottles.



Oval. Oval Fronted Flat.



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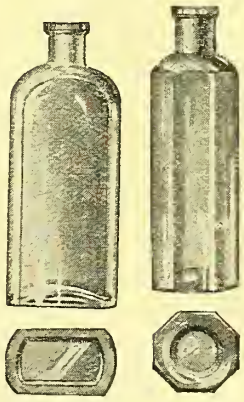

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LARGEST SALE

CHEMISTS prefer this make because it has been sold by the TRADE for many years and not direct to Users. EUREKA is asked for and gives a good profit. AGENTS are fully assisted in the Selling. Please write NOW.

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"TURNED" quality, i.e. Seamless.

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(Strictly Wholesale. Original crates only.)

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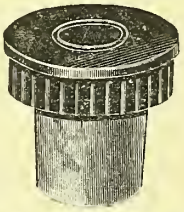

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SOLD EVERYWHERE. Manufactured by

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"ACME" WEED KILLER

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Instantly soluble in cold water. Packed in small decorated tins. **Specially adapted for Export.**

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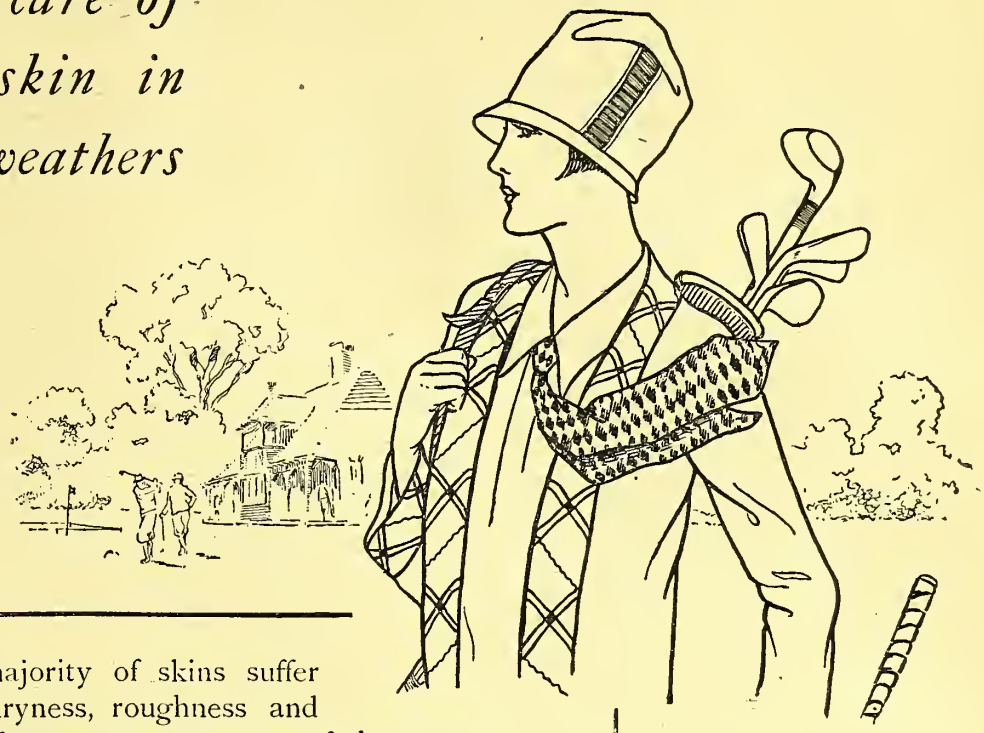

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Coming Events

Tuesday, March 29

Ealing Pharmacists' Association and Branch of the Pharmaceutical Society, Red Lion Hotel, Acton, at 8 p.m. Men's smoking concert in aid of Benevolent Fund. Tickets (2s. 6d. each) from the secretary or Mr. Arnold Roberts.

Wednesday, March 30

Dundee Chemists, New Masonic Rooms, 31 Tay Street, at 7 p.m. Whist drive, supper and dance. Tickets (6s. each) from Mr. J. Anderson, 87A Arbroath Road.

Pharmaceutical Society of Great Britain (Exeter Branch), Rougemont Hotel, at 3.15 p.m. Parliamentary Fund appeal.

Pharmaceutical Society of Great Britain (Birmingham Branch), Grand Hotel, at 3 p.m. Parliamentary Fund Appeal.

Thursday, March 31

Pharmaceutical Society of Great Britain (Cambridge Branch).—Joint meeting with East Anglian Federation of Pharmacists at 2.15 p.m., Garden House Hotel. Visit to Colleges. At 7 p.m., dinner, Queens' College. Tickets (4s. 6d. each) from Secretary, 30 Trumpington Street.

NORTH LONDON PHARMACEUTICAL ASSOCIATION.—The annual dinner and dance will be held on April 7 at the Restaurant Frascati, Oxford Street, W., at 6.30 for 7 p.m. Annual dinner and dance. Tickets (12s. 6d. each) from Messrs. H. Skinner and W. E. Swanston.

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Newton Commemoration

The bicentenary of Sir Isaac Newton's death (*C. & D.*, March 19, p. 344) was the occasion of a largely attended series of functions at Grantham, where he went to school. A permanent memorial is contemplated in the form of scholarships in science. Addressing the company which assembled on March 19, Sir Joseph Thomson pointed out that Newton was as skilled in the practical as in the theoretical work of a man of science, showing a marvellous dexterity and adaptability. He diagnosed the defects in the refracting telescope of his day, but came to the wrong conclusion that they were incurable, and so delayed the discovery of the way to overcome its imperfection. But his work on the colour of thin films, the quantitative results he worked for and the boldness of his speculations on the nature of light made Newton's work in optics seem marvellous even to-day. Writing to "The Times" from the Institute of Historical Research on March 19, Professor A. F. Pollard pointed out that, owing to the difference of eleven days between the old calendar and the reformed calendar, March 31, not March 20, is the date of Newton's death on our present system of reckoning.

Public Institution News

The following tenders have been accepted by the bodies named:—

Blean Guardians.—The British Drug Houses, Ltd., drugs; B. Pratt & Co., Ltd., dressings.

Colchester Guardians.—F. W. Last, Ltd., drugs.

Croydon Guardians.—Hodgkinson, Prestons & King, drugs; Allen & Hanburys, Ltd., instruments; T. J. Smith & Nephew, Ltd., dressings.

Faversham Rural Council.—Mr. E. Withers, chemist and druggist, drugs, etc.

Hemel Hempstead Education Committee.—H. J. A. Wadsley, chemist and druggist, drugs, etc.

Hertford and Ware Joint Hospital.—Mr. A. J. Sheffield, chemist, Hertford, sundries.

St. John's Hospital, Twickenham.—Mr. C. Goode, chemist and druggist, drugs.

At a recent meeting of the Tavistock Guardians it was stated that H. T. Doble & Son, chemists (Mr. W. A. Burnage, chemist and druggist) had supplied lysol to the institution at 10s. 6d. per gall., bandages at 3s. 6d. a dozen and lint at 3s. per lb., whereas it was possible to buy these goods for 8s. 3d. per gall., 1s. 6d. a dozen and 1s. 6d. per lb. respectively. In consequence, the board decided not to pay the account, and an intimation to this effect led Mr. Burnage to ask permission to appear before the members and explain the matter. At the meeting on March 18 Mr. Burnage stated that the dressings he had supplied were the quality known as B.P.C., for which grade the prices charged were quite reasonable. In regard to the lysol, he had supplied Wright's brand, which cost him 8s. 3d. a gallon. It was quite possible for the guardians to purchase the goods at the same price as himself from the same wholesale firms, but if they obtained them through a retailer it was obvious that a charge must be made which would show the retailer a reasonable profit. The board signified that the explanation would be considered.

Inquests

On March 17 the Hendon coroner resumed and adjourned to May 18 the inquiry concerning the death of Walter Jarrett and Leonard Garrett, who died following an explosion (*C. & D.*, February 12, p. 187), another man who received injuries at the same time not being sufficiently recovered to give evidence.

An inquest was held in Marylebone (London), on March 22, on the body of Walter H. G. Spindler, turf commission agent. Dr. Lynch, Home Office analyst, stated that on making an analysis of the stomach and other organs he found nearly 9 gr. of veronal, and to

account for this amount he should say that the man must have taken about 50 gr.

The Westminster coroner held an inquest, on March 22, on the body of Mr. S. R. Powell, chemist and druggist, proprietor of Williams & Elvey, chemists, West Halkin Street. The evidence of Mr. O. C. Capell, an assistant, was to the effect that for the past two years Mr. Powell had slept, in his clothes, on the premises. On the evening of March 17 witness saw him there, apparently asleep. Dr. Weir deposed that death was due to syncope from bronchitis, and a verdict of "Death from natural causes" was recorded.

Commenting, at an inquest held in West London on March 23, on the fact disclosed that it was possible to buy carbolic acid from hawkers in the streets in Shepherd's Bush, the coroner protested against "this dangerous practice." He continued: "So long as it is possible to get hold of poison so easily, people who are the victims of impulse will take their lives, but I think we are coming to the limit when we find it is possible to purchase such a deadly poison as crude carbolic acid from hawkers in the street as though one were merely purchasing cabbages. It has been said that if people do not commit suicide in one way they will do it in another. That is not always the case. My experience goes to prove that most suicides are the victims of impulse, and once that impulse has passed there is frequently no longer a desire to take life." A witness supplied the detail that the carbolic acid was hawked about on a barrow which also contained table salt.

Birmingham

The National Trades and Industrial Exhibition is being held at the Bingley Hall. The closing date is May 14.

Mr. H. P. Hague, chemist and druggist, 336 Gooch Street and 162 Conybere Street, has taken over the business of Mr. F. R. Smallman, chemist and druggist, 228 Soho Road, Handsworth.

Mr. F. H. Alcock, F.I.C., Ph.C., gave a short address before the local section of The Institute of Chemistry on March 21, his subject being "The Making of a Pharmacopœia." There was a good attendance, presided over by Professor Ling.

A communication on "The Removal and Recovery of Phenols from Ammonia Sulphate Still Effluents" was read before the Birmingham and Midland Section of the Society of Chemical Industry, on March 22, by Mr. D. W. Parkes, B.Sc.

The result of the hockey match played recently between the past and present students of the Birmingham School of Pharmacy was a win by 10 goals to 3 for the present students. A successful social evening, arranged by the present students, was later held at the school. Special features were a sketch, a mock trial, topical songs by the "Pharmacy Follies," and community singing. The Students' Association hopes to publish the first number of "The Pharmacy Review" shortly, and the editor appeals for contributions.

Liverpool

There has been a considerable slackening off of business during the past week, due, no doubt, to the warmer weather.

A well-known Liverpool chemist who recently visited Manchester was impressed by the fact that there are fewer empty shops in Cottonopolis than in the Mersey city.

The members of the Liverpool Pharmacy Club are arranging a party to visit the Palais de Danse, Southport, on March 30. Meet at Exchange Station at 6.50. Excursion tickets are obtainable up to 7 p.m. The club's last dance of the season is fixed for April 7 at the Yamen Rooms, Bold Street.

Part II students of the Liverpool School of Pharmacy paid a visit to the laboratories of Evans Sons Lescher & Webb, Ltd., Fleet Street, on March 15. The party was conducted through under the direction of Messrs. Sendall (director), Cameron, Manson and Turner, who fully explained the various processes. What struck the students most was the huge quantities of drugs dealt with. During the tour round scarcely a single phase of general pharmacy was missed, from the wrapping of a seidlitz powder to the preparation of podophyllin resin, involving the use of two tons of the crude drug. At the conclusion the students were entertained at the Bear's Paw Restaurant. In the unavoidable absence of Mr. T. E. Lescher, Mr. W. Brinson (director) presided. A vote of thanks was proposed by the principal, Mr. H. Humphreys Jones, seconded by one of the students, Mr. Glyn Jones, and carried unanimously. Messrs. Brinson and Sendall responded.

Sheffield

Mr. J. H. McConnachie proposes resigning the secretaryship of the Sheffield Pharmaceutical and Chemical Society at the end of the present session.

Mr. F. A. Lester, chemist and druggist, who was for several years with John Clark & Co., chemists, West Street, has commenced business on his own account in Holly Street.

At the Town Hall, recently, an inquiry was held by the Ministry of Health into the working of the local scheme for testing Insurance dispensing. Mr. Mallinson supported the Pharmaceutical Committees' representatives, and Mr. Potts appeared for the Association of Insurance Committees.

Miscellaneous

BURGLARY.—During the night of March 22 the premises of Algernon Lawes, Ltd., veterinary medicine manufacturers, Hornsey Road, London, N., were entered by burglars. Three safes were opened by force, but nothing of much value was taken.

FIRE.—An outbreak of fire, from an unknown cause, occurred on March 21 at the pharmacy of Mr. E. B. Stamp, 29 High Street, Hampstead, London, N.W. The flames were confined to the ground floor, and the damage was not of an extensive nature.

MORPHINE SULPHATE TABLETS LOST.—Public attention was called, on March 18, to the loss of 240 hypodermic tablets of morphine sulphate stated to have been dropped from a post-bag belonging to Bleasdale, Ltd., wholesale druggists, York. The tablets were subsequently found.

BOYS' CHEMICAL EXPERIMENT.—While experimenting with chemicals in a house in Ballina Road, London, S.E., on March 22, two boys named W. J. Purvis and F. Plaskett were severely injured by an explosion, and were taken to Lewisham Hospital. It has not been ascertained how the explosion occurred.

FOOTBALL.—In an Association match, recently, between Manchester College of Pharmacy and Manchester University (pharmacy department) the former won by 8 goals to 2. Scorers for the College were Mower (2), Cundy (2), Scholfield (2), Leveson and Goodwin. This was the College's last match of the season, results being: Played 11, won 7, drawn 2, lost 2, goals for 55, goals against 43.

PROTECTION OF ANIMALS ACT.—At Aylsham, recently, Frederick Tweed, gardener, Haveringland, was fined £2, with costs, for having placed on land meat poisoned with strychnine. Analytical evidence was given by Mr. W. L. Sutton, F.I.C.—At Banbury, on March 17, William H. Lovesey and Benjamin F. Lovesey were ordered to pay fines and costs amounting to £14 14s. for a similar offence, causing the death of three hounds.

DERMATITIS AWARDS.—In Shoreditch County Court, London, on March 17, Elizabeth Dilworth was awarded the sum of £4 19s., with a declaration of liability, in respect of dermatitis arising from the use of chemicals used in finishing clock cases, against M. A. Marks & Co., Well Street, E.—In Whitechapel County Court, on March 18, Albert E. Sansom was similarly awarded £6 12s. 6d. against M. & A. Wetstein, manufacturing furriers, Middlesex Street, E.

RIFLE SHOOTING.—The rifle shooting team of the South-West London Chemists' Association have completed a fairly successful season. Shooting as the C team of the Balham Rifle Club in the City of London Rifle League, Division VI, they have tied for third place in the competition, with an aggregate score of 10,116 points.

They have won nine matches, lost eight, and tied in one. Mr. A. M. Garden, Mitcham, with a score of 1,681, has won the medal presented by the City League to each club for the member of the team making the highest aggregate score in the eighteen matches.

IN THE COURTS.—At West London Police Court, on March 18, Arthur A. Anderson, fruiterer, and Donald Ferguson, floor-layer, were committed for trial on a charge of being concerned in breaking into a post office at the shop of Mr. W. Reeves, chemist and druggist, Cornwall Road, W.11 (*C. & D.*, March 19, p. 336). Anderson was allowed bail.—In Preston County Court, on March 22, Leo Smith was awarded compensation at the rate of 16s. a week, in addition to a previous grant of £1 3s. a week for total disablement, against Vernon & Co., surgical dressings manufacturers.—At Lambeth Police Court, London, on March 22, Mabel Stally, Hackford Road, S.W., was committed for trial on a charge of stealing the sum of £34 from Roger S. Steeds, Finchley Road, N.W., described as a chemist.

PRIVATE ARRANGEMENT.—A meeting of the creditors of Mr. H. S. Sharp, chemist, 301 Chillingham Road, Newcastle-on-Tyne, was held recently, when it was stated that the liabilities to the trade were £196 14s. 7d., while there were cash creditors for £250. In addition there were fully secured creditors for £822. The assets consisted of:—Stock, £125 17s. 10d.; fixtures and fittings expected to produce £75. It was stated that the debtor commenced trading at his present address about two years ago with a small capital. The turnover had been insufficient to pay the rent, rates, and the usual working expenses. A resolution was passed in favour of a deed of assignment being executed to Mr. Thomas Bell, 24 Grainger Street West, Newcastle. Among the creditors are:—Wilkinson & Simpson, Ltd., £17; Southall Brothers & Barclay, Ltd., £12.

Scottish News

Brevities

Owing to influenza and pneumonia, chemists in many Scottish towns report that the volume of dispensing is greater than it has been for many years.

In connection with the recent visit of the foreign medical officers of health to this country, Dr. Zygmunt Domanski, Poland, and Dr. Jonas Sliupas, Lithuania, visited the National Health Insurance—Drug Accounts Committee's Bureau in Glasgow, in order to inquire into drug administration in Scotland under the National Health Insurance scheme.

Edinburgh

A circular letter is being sent out by the committee formed in connection with the proposed testimonial from former students to Mr. William G. Mackenzie, Ph.C., late head of the chemistry department of the Royal Dispensary, School of Pharmacy, Edinburgh. The movement has the support of a large number of chemists in Scotland and England. Subscriptions should be sent to the treasurer, Mr. J. J. Blackie, Ph.C., 104 Holyrood Road, Edinburgh.

The annual meeting of Boots United Chemists' Pension Fund and Friendly Society and Boots Co-operative Insurance and Pension Society, Ltd., was convened in Edinburgh March 18. Mr. J. C. Boot, who presided, after congratulating the societies very heartily upon the figures (*C. & D.*, March 19, p. 337), said it was bound to be some time before another meeting was held in Edinburgh, owing to the fact that the venue is moved at each annual meeting to some other part of the country in order to give as wide a field as possible, and he asked the Scottish members to utilise the opportunity to clear up all points or difficulties.

MINISTRY OF PENSIONS.—Prescriptions dealt with under the Ministry of Pensions scheme in the London region (which includes Middlesex) last year numbered 38,735, and were dispensed at a cost of £1,940.

Irish News

Brevities

The prize for the best window display in a chemist's shop in Cork during Irish week was awarded to Mr. Eugene MacSweeney, Patrick Street, Cork.

The death is announced of Mr. Robert Wall, compounder at the Cork Military Barracks for twenty-five years, and previously dispenser to the late Dr. Scannell.

Mr. J. W. Sandford, R.D., is opening a business at Main Street, Larne. Mr. Sandford has recently been in the service of his uncle, Mr. Thomas Sandford, R.D., Newtownards, co. Down.

The tenders of R. Sumner & Co., Ltd., Liverpool, for medicine, with 22½ per cent. discount off the prescribed list prices, and John Clarke & Co., Ltd., Belfast, at 61½ per cent. discount for medical and surgical appliances, were accepted by the Limavady Board of Guardians.

Fred Storey & Co., Ltd., Belfast, have received the contract for the supply of medicines to the Cookstown Board of Guardians at 20¼ per cent. discount off list prices as compared with 33¾ per cent. last year. John Clarke & Co. secured the contract for twelve months for appliances at 61½ per cent. discount.

At Dungannon Petty Sessions, recently, Thomas McCausland, Donaghmore, was summoned for selling ginger wine which did not contain alcohol to the required strength. He submitted the analyst's report. Mr. W. J. Reynolds, for defendant, said the bottle was labelled "superior ginger wine, non-alcoholic," and it was sold as a cordial. A fine of 2s. 6d. and 15s. 6d. extra costs was imposed, and for similar offences Peter Duffy and Elizabeth Kelly, spirit merchants, New Mills, were also fined 2s. 6d. and 13s. extra costs.

Belfast

The Rev. G. F. G. Mann, B.A., St. Aidan's, Belfast, younger son of Mr. A. W. Mann, M.P.S.I., Belfast and Lurgan, has been elected President of the Belfast and District Christian Endeavour Union.

Mr. A. M. Gamble (Shaw & Jamison, Ltd., wholesale druggists) gave an address on "The Downs of Industry and Commerce: the Cause and the Remedy," at the monthly meeting of the board of management of the Belfast Grocers' Association.

"The Ductless Glands and Their Use in Medicine" was the title of a lantern lecture delivered by Dr. J. Stanley White under the auspices of the Ulster Retail Drug Trade Association on March 16 in the Y.M.C.A. Hall, Belfast. Lieutenant-Colonel W. R. Dawson, O.B.E., M.D., F.R.C.P., Chief Medical Officer, Health Department, Ministry of Home Affairs, presided. There was a large attendance.

At the annual meeting of the Belfast Wholesale Merchants' and Manufacturers' Association, held on March 18, Mr. Horace Haslett, of J. & J. Haslett, Ltd., was elected Vice-President, and Messrs. Alexander Gamble, T. W. McMullan, M.P., and George Wilson, J.P., elected to the Committee. At a dinner which followed the retiring President, Mr. T. W. McMullan, M.P., was presented with a handsome gift on behalf of the members in recognition of his services as President during the past three years.

Dublin

The Master of the High Court, Dublin, on March 18, granted the application of Mr. Patrick S. Flynn, Ph.C., Parnell Street, for liberty to issue and serve a writ out of the jurisdiction on the Palmolive Co. (of England), Ltd., London, W.C.1.

Boileau & Boyd, Ltd., Dublin, have again secured the contract for the supply of drugs and medicines, under the combined purchasing scheme of the Free State Government, for all the Free State, Cork City excepted, for the ensuing six months.

Legal Reports

Claim for Personal Injuries Fails.—At Birmingham Assizes, on March 17, Mr. Jabez Bate, merchant, Livingstone Road, Handsworth, sued Mr. William Izon, chemist and druggist, High Street, Aston, to recover damages for personal injuries caused by the alleged negligent driving of the defendant's motor-van. The evidence was to the effect that the plaintiff alighted from a tramcar and went to cross the road, when he was knocked down by the van. It was alleged that the van passed a stationary tramcar at twenty-five miles an hour. The driver of the van said that his speed was from ten to twelve miles an hour. He sounded the electric horn and swerved to the right in an endeavour to miss the plaintiff. The jury found for the defendant, and judgment was entered accordingly.

Employer Responsible for Stamping Cards.—At Chard, on March 15, Mr. Libbis N. Burch, chemist and druggist, was summoned for having failed to pay contributions under the National Health Insurance Act in respect of a woman employed as a domestic help. Mr. C. F. Saunders, who appeared for the defence, urged that this was not a case of seeking to evade the Act and get out of paying the contributions, as Mr. Burch had given the woman 6d. a week in addition to her wages, that being his share of the contribution, and expected her to stamp her own cards. In fining the defendant £2, and ordering him to pay 9s. 9d. arrears and 24s. costs, the presiding magistrate pointed out that it was not sufficient for an employer to pay the amounts due; he had to see the cards were stamped.

Thermogene Co., Ltd., v. Mayo.—In the Chancery Division of the High Court, London, on March 18, Mr. Justice Astbury dealt with a motion, Thermogene Co., Ltd., v. Mayo, in which the plaintiff company asked for an injunction to restrain the defendant from infringing the trade-mark "Thermogene" and passing off medicinal wool not of the plaintiffs' manufacture as Thermogene, and also to restrain him from falsely representing that the plaintiffs' Thermogene was a German product. Counsel for the plaintiffs said the defendant had notified his willingness to consent to treat that motion as the trial of the action and to give a perpetual undertaking in the terms of the notice of motion and injunction claimed, and to pay the costs. Counsel added that plaintiffs were an all-British company, and had been since the inception many years ago, and had no connection with Germany. Counsel for the defendant, agreeing and consenting to the perpetual undertaking, said that his client did not admit all the charges made by the plaintiff company. His lordship acquiesced in the settlement of the motion on the terms arranged.

A Disputed Account.—In Blackburn County Court, on March 21, Clement & Johnson, Ltd., London, claimed the sum of £17 18s. 9d. for goods supplied to H. J. Wade & Co., Ltd., manufacturing chemists, Railway Road, Blackburn. Mr. R. W. Leach appeared for the plaintiffs, and Mr. Nuttall defended. Mr. Leach said that the defendants traded with the plaintiffs from January 1923 until July 1926. The amount claimed was the balance of account between the two firms. The defendants now denied this indebtedness. They admitted that the goods were received, but contended they were not suitable for the purpose for which they were supplied. In view of the submission, Mr. Leach called no evidence. Mr. Wade, managing director of defendant company, said in the witness-box that he ceased to trade with the plaintiffs because of what he read in the Press. He made an analysis of "Yadil," and found that it contained 93 per cent. of water. He estimated its cost at about 6d. a gallon. Witness quoted from a book supplied by plaintiffs, in which cures were claimed on behalf of Yadil. Mr. Leach (cross-examining): Because of the attacks these goods became unsaleable; that is your case? —Yes. And it was only because of these attacks that your sales began to drop off?—Yes. In other words, when people knew what the product was, they would not buy it. So long as people were willing to buy, you were willing to sell?—It was sold as a sealed article. Do you know that the sale of Yadil has never ceased?—I have not met a chemist who sells it. Re-examined: He did not analyse Yadil until the sales dropped off. Answering the judge, witness said that after the published analysis the sale "was cut off like a knife." He was not a medical man, but he had known cases in which cold water had proved a good medicine. The Judge: Well, there is 93 per cent. of good medicine in this, then? (Laughter.) Witness: Yes, but the public thought 98 per cent. of water at a guinea a gallon was far too much. Evidence was given by Dr. B. McPhee, consulting tuberculosis officer for Lancashire, who agreed with Mr. Wade's analysis, and said that none of the ingredients was of any use in the cure of tuberculosis. Mr. Leach submitted there was no evidence that the medicine was unfit for the purpose for which it was supplied, or that it was unmerchantable. The judge, in giving judgment for the plaintiffs, said he had better not express his views on patent medicines. In this case there was no warranty regarding the cure of any particular ailment.

Registered Druggist Fined.—At the Ardee (co. Louth) District Court, on March 19, Mr. John Carney, R.D., was charged on three summonses. In the first summons he was charged with having neglected, in reply to the statutory letter, to furnish to the Registrar of the Society a statement of the name and address of the *bona-fide* proprietor or proprietors of Carney's Medical Hall and the other information required. The second summons charged him with a breach of the law in that he, being a person lawfully keeping open shop for retailing poisons, did not employ as an assistant or manager a duly registered chemist and druggist, registered druggist, pharmaceutical chemist, or licentiate apothecary. The third summons charged him with selling phosphorus contained in Rodine rat poison, the vessel in which it was contained not being labelled with the name and address of the seller. Mr. William C. Meeke, solicitor, appeared for the Society, and Mr. Thomas Teevan, solicitor, for the defendant. Mr. Teevan said the only matter on which he wished to join issue with the complainants was in reference to the Registrar's letter. He was not saying that Mr. Meeke's clients did not post the letter, but his client never received it. Mr. Meeke said that in the present case the assistant was Mr. Stephen Carney, who had made three separate attempts to pass the Registered Druggist examination, and had failed. Mr. John Carney, by his brother Stephen, sold a pot of Rodine, and also sold carbolic acid and a box of Rankin's Ointment. He was informed that Rankin's Ointment contained veratrine; the alkaloid amounted to 0.079 gram, equivalent to about 1¼ gr. The effect of ever very minute quantities of the alkaloid upon the mucous membrane of the human being was so deleterious that the sale of any preparation containing it should, more than any other drug in the Pharmacopœia, be kept in the hands of qualified persons. Mr. Teevan said he would take Mr. Meeke's certificate as to the poison. He was unable at present to produce evidence in reference to the statutory letter. Since the summonses had been issued his client had been seriously ill. Shortly after the summonses were served they had succeeded in obtaining a qualified pharmaceutical chemist to manage the shop. He was the third they had had, but they had some difficulty in keeping them. No harm had been done to the public, and no danger existed at the present moment. The justice said that the matter was very serious, even as a technical breach of the law. In the course of a discussion which followed, Mr. Meeke mentioned that the prosecution would cost the Society between £30 and £40. He agreed to withdraw the summons in reference to the non-reply to the statutory letter. The justice imposed a fine of £1 on each of the two remaining summonses and allowed £5 5s. costs in each case. It was, he said, in the public interest that there should be publicity in these cases to act as a deterrent.

Dangerous Drug Act Fines.—At Birmingham Police Court, on March 17, Mr. John William Bland, chemist and druggist, 318 Moseley Road, appeared in answer to summonses which charged him with failing to keep proper records of his transactions in drugs, contrary to the Dangerous Drugs Regulations, 1921, and with failing to keep all such drugs in a locked receptacle. Mr. Pugh, prosecuting, said that he had been in touch with the Director of Public Prosecutions and the Home Office, and they were of the opinion that the offences came within the provision that the penalty imposed should

not exceed £50. On September 26 last the defendant was seen by an inspector, who told him that the way in which he was keeping the entries of transactions was not satisfactory. The Act laid down that these drugs must be kept in a locked receptacle. When the inspector revisited the defendant's shop on January 31, he found that the cabinet was open and the lock would not work. The shop at the time had been left in charge of two youths, aged nineteen and twenty. This, said Mr. Pugh, was a most dangerous procedure. It put temptation in the way of any unscrupulous person. The inspector gave evidence as to warning Mr. Bland on September 9 last year that he could glean little or nothing about the prescriptions entered in his books, which did not comply with the Regulations. He told him that he must bring them up to date. He did not call again until January 31 last. The defendant was not in at the time, and the shop was left in charge of two unqualified youths. The door of the cabinet was standing open, and the lock was broken off. The cabinet contained about forty bottles. He called again later and saw the defendant, who in reply to witness's remarks about the cabinet, said: "The key of the cupboard is lost and the lock is broken. I have sent it to be repaired. I do not dispute that the bottles contain 'dangerous' drugs." He then asked Mr. Bland to produce his sales and purchase books. In some cases the addresses and the amounts were missing. In the sales book there were incomplete entries in respect of morphine and cocaine, and records of opium and morphine transactions were not kept separate as required. Mr. Pritchard, for the defendant, said that after much consideration he had decided to plead "Guilty" to technical offences. Most of the entries referred to by the inspector, he submitted, were perfectly intelligible to Mr. Bland himself. The defendant, in the witness-box, denied that the inspector warned him in September last. He mentioned, said Mr. Bland, that some of the entries were incomplete, and witness replied that they fulfilled the requirements of the Act. After the inspector called in January, he had the lock of the drug cabinet repaired, and also sent for a special register. Mr. Pritchard pointed out that a conviction would render the defendant liable to lose his authorisation, which would mean ruin to him. He had been in practice for twenty years. The stipendiary magistrate said he was satisfied there was no bad motive in the defendant's neglect, but it was a bad case of neglect. Everything was made simple, and the defendant should have followed the Regulations. He would have to pay a fine of £5 for not keeping a locked receptacle, 40s. on the other summonses, and £2 1s. costs—£9 1s. in all.

Unqualified Traders' Poison Sales.—In the District Court, Thurles, co. Tipperary, on March 16, before Mr. Flood, six summonses were heard against Mr. Thomas P. Stapleton, grocer and general trader, Friar Street. In the first he was charged with having kept open shop for retailing poisons. In the second he was charged with having neglected, in reply to the statutory letter, to furnish to the Registrar of the Society a statement of the name and address of the *bona-fide* proprietor or proprietors of his shop. The third summons charged him with having sold Cooper's sheep dipping powder not labelled with the name and address of the seller. In the fourth summons he was charged with having sold the powder to a person unknown and not introduced to him. The fifth summons charged him with failing to make the necessary entry. The sixth summons charged him with selling strychnine contained in Fellows' Syrup in a bottle not labelled with the name and address of the seller. Mr. William C. Meeke, solicitor, appeared for the Pharmaceutical Society, and Mr. Carrigan, solicitor, for the defendant. Mr. Meeke stated that a period of 103 days had elapsed since the expiration of the time in which the defendant should have replied to the Registrar's statutory letter, and he had rendered himself liable to a penalty of £103. Mr. W. Thorp, F.I.C., would prove that the Cooper's powder contained arsenic equivalent to 27.2 per cent. of arsenious acid, and Mr. Meeke produced 1.07 gr. of strychnine crystals which had been isolated by Mr. Thorp from the Fellows' Syrup. Dr. Robinson, who was in attendance, would prove that $\frac{1}{16}$ gr. of strychnine had been known to poison a child up to two years of age, and that an adult had been known to have been poisoned by $\frac{1}{4}$ gr. In the present case the defendant had broken every possible regulation which he could have broken. Regulation 16 required that the poisons should not be sold in the same premises as foodstuffs. In the present case they were sold not only in such premises, but actually over the grocery counter. Mr. Meeke referred the justice to the cases of the Pharmaceutical Society of Great Britain v. Wheeldon and to the Pharmaceutical Society v. Nash, in which it was held that the words "persons so selling" in the Act of 1908 included the person actually conducting the sale, and that such person, to be protected, must be licensed, or, in other words, that the licence was personal to the licensee. The Justice: Delegatus non potest delegare. Mr. Meeke also referred to the case of the Pharmaceutical Society v. Jacks, in which it was held that the failure to comply with the regulations by the licensee involved the loss of the protection otherwise afforded by the licence. The justice, without evidence being called, inflicted a penalty of £5, with £1 costs, on the summons for the breach of Section 30 of the Pharmacy Act (Ireland), 1875. He convicted on two of the summonses for breaches of the Poisons Act of 1870, and dealt with the defendant under the First Offenders Act, allowing £1 costs in each case. On the summons for non-reply to the statutory letter, the defendant's clerk proved that he had posted the reply, and Mr. Meeke withdrew the summons. He also withdrew the two remaining summonses. —At the same Court, Mr. Hugh Shelly, shopkeeper, Parnell Street, was charged on two summonses for breaches of the Act of 1875 and the Act of 1870, arising out of a sale of Fellows' Syrup. He pleaded "Guilty" through his solicitor. Mr. Meeke withdrew one of the summonses. The justice, on the summons for keeping open shop, imposed a fine of £5, with £1 costs.

Bankruptcy Reports

Re John William Ethelbert Price, trading as W. Hardcastle & Sons, Finkle Street, Stockton-on-Tees, "chemist." —The public examination was held on March 17 at Stockton. The statement of affairs showed gross liabilities £1,155 3s. 10d., and deficiency of £265 10s. 8d. Included in the assets were three pestles and mortars used by John Walker when he invented the lucifer match, estimated to be worth £120, and the debtor also had the formulas of certain proprietary preparations, which he valued at £200. The official receiver pointed out that there were certain creditors not accounted for, and asked the debtor if he borrowed £49 from a Middlesbrough moneylender, and, if so, why it was not disclosed. The debtor said that he had overlooked it, but denied that he had contracted it while negotiating a deed of assignment with his creditors. He admitted that his deficiency was now increased to £314 10s. 8d. He attributed his failure to loss of trade consequent upon the closing of the shipyards and the general depression. He had formerly been manager for a very old-established Stockton firm, and in 1911 he bought the business for £276 17s. 1d. He had £100 capital and borrowed £400 from his wife, who had never been repaid. For a time he was successful, and he made as much as £250 a year by supplying ships which came into the river, but that income had lately declined considerably. He stated that he thought his assets exceeded his liabilities, and he honestly thought that the John Walker relics should not be sold for less than £1,000. The Official Receiver: Do you seriously think anyone will give you that for them?—I think if they were sold at Christie's they would bring that amount. Bryant & May's would buy them to-day for £300. Referring to the formula for the Balm of Gilead and the Cholera Drops, which he alone was in possession of, having received them verbally from the late William Hardcastle, he said he was prepared to communicate them to anyone the trustee could find who would take them over. He had never had sufficient capital to exploit them properly. The examination was adjourned.

AN ARTICLE entitled "Herb Growing for Pleasure or Profit," from the pen of Mrs. M. Grieve, Chalfont, appeared in "The Morning Post" of March 23.

New Companies
and Company News

P.C. means Private Company and R.O. Registered Office.

WALTER J. CROOK, LTD. (P.C.).—Capital £5,000. Objects: To acquire from W. J. Crook the goodwill of the business of a chemical and general produce merchant and agent carried on by him at 10 Eastcheap, E.C.3. The directors are: W. J. Crook and G. J. W. McDonald. R.O.: 9 Botolph Lane, London, E.C.3.

HICKMOTTS, LTD. (P.C.).—Capital £500. Objects: To carry on the business of wholesale, retail, manufacturing, optical and dispensing chemists, druggists, etc., and to acquire the leasehold shop at 10 London Road, Rainham. The directors are: W. Hickmott, Mrs. D. M. Hickmott and W. C. Baker. R.O.: 10 London Road, Rainham.

HENRY MELLOR, LTD. (P.C.).—Capital £3,000. Objects: To acquire the business of a chemist and druggist now carried on by H. Mellor at The Modern Pharmacy, Penrhyn Avenue, Rhos-on-Sea, Denbighshire, and Penrhyn Bay, Carnarvonshire, as "Henry Mellor, M.P.S." The directors are: H. Mellor and N. Harrison.

WOOL BYE-PRODUCTS, LTD. (P.C.).—Capital £2,000. Objects: To adopt an agreement with W. Swan for the acquisition of the chemical process, plant, machinery, fittings and fixtures comprised therein; and to carry on the business of manufacturers of neutral oils, fatty acids and lanoline grease; chemists, druggists, oil and colour men, etc. The directors are: J. T. Windle, F. Gill and J. L. Windle. R.O.: 2A Tyrrel Street, Bradford.

COLEMAN & CO., LTD., Wincarnis Works, Norwich.—The net profit amounted to £50,175, *plus* £19,526 brought forward. The directors recommend a balance dividend of 7½ per cent. on the ordinary shares, making 12½ per cent., and a bonus of 5 per cent.; £10,000 is put to reserve, and £21,702 carried forward.

HOOPER, STRUVE & CO., LTD.—The accounts for 1926 show that the net receipts amounted to £9,202, and expenditure to £4,621, leaving a profit of £4,582 (against £5,659). This sum, together with £1,823 brought forward, makes £6,405. A dividend of 8 per cent. on the preference shares absorbs £4,000; £1,000 is transferred to reserve, and £1,405 is carried forward.

UNITED ALKALI CO., LTD.—The net profit for 1926 amounted to £195,765 (against £391,085 for 1925), and £103,709 was brought forward. It is proposed to pay a dividend of 10 per cent. per annum on the ordinary shares (the same as for the preceding year), leaving £11,708 to carry forward. The report states that the company suffered severely by the general strike and long-continued coal stoppage.

BRUNNER, MOND & CO., LTD.—The report for the period of nine months to December 31 last states that the net profit amounted to £856,335, to which is added £150,427 brought forward, making together £1,006,762. After deducting the half-yearly dividend on the preference capital and the dividend now to be paid on that capital for the three months to December 31 (together requiring £225,000), it is proposed to pay a dividend on the ordinary capital at 17½ per cent. per annum, making with the interim dividend 7⅞ per cent. (actual) for the nine months, being the equivalent to 10½ per cent. for a year. The ordinary dividend absorbs £770,797, leaving to be carried forward £10,965.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—The statutory general meeting was held on March 18 at Winchester House, Old Broad Street, London, E.C. Sir Alfred Mond presided, and in the course of a lengthy address outlined the position of the new enterprise. Their most sanguine anticipations in regard to the exchange of shares in their respective companies for shares in Imperial Chemical Industries had been surpassed, said the chairman, and the exchange represented 96 per cent. of the total capital which is issuable; the balance of 4 per cent. would come in shortly. The benefits of the merger were enlarged upon by the chairman, and already the exchange of technical information and research is proving beneficial to the whole organisation. Among the subjects dealt with in the chairman's speech was the question of research, general conditions of trade and industry, Brunner, Mond (China), Ltd., relations with employees, etc.

WRIGHT, LAYMAN & UMNEY, LTD.—The report for the year ended December 31, 1926, shows that the year's trading has proved satisfactory. The accounts show that, after providing for staff bonus, bad debts, depreciations and income-tax, there is a trading profit, including income from investments, of £36,353 11s. 9d. Adding the amount brought forward from last year (£5,960 18s. 1d.), there remains to the credit of profit and loss £42,314 9s. 10d. From this the following appropriations have been made: Dividend of 6 per cent. on preference shares, less income tax at 4s., £4,320; interim dividends of 10 per cent. on £90,000 ordinary shares, less income tax at 4s., £7,200; directors' fees, £4,400; making a total of £15,920, and leaving a balance of £26,394 9s. 10d. The directors recommend that this amount be apportioned as follows: Payment of a further dividend of 15 per cent. on the ordinary shares, making 25 per cent. for the year 1926, less tax at 4s., £10,800; payment of a bonus of 2s. per share on the ordinary shares, less tax at 4s., £7,200; transfer to general reserve fund, £2,500; carry forward to 1927 the balance of £5,894 9s. 10d.

EVANS SONS LESCHER & WEBB, LTD.—The annual meeting was held on March 18 in the Law Association Rooms, Cook Street, Liverpool. Mr. J. Herbert E. Evans, chairman, presided. In proposing the adoption of the report and accounts and the payment of dividend on the 6 per cent. cumulative participating preference shares to June 30 last, the chairman spoke hopefully of the future of the undertaking. After extended allusion to the scheme of arrangement under which the new company bought the business of the old company, he said the new concern began with a strong balance sheet and encouraging prospects of future years' prosperous trading. All the assets of the new company were tangible. It was perhaps a happy coincidence that they had been able once more to put the finances of the business on to a sound basis—in fact, on to a sounder basis than they had ever been—in the centenary year of its foundation. They had every confidence in the ability of the company to earn profits sufficient to pay an adequate dividend on its capital, providing trading conditions in this country and abroad permitted them to conduct their business on normal and unbroken lines. 1927 had opened auspiciously. They might look forward to the future of the new company with a feeling of quiet optimism. Mr. T. E. Lescher seconded, and the motion was carried. Messrs. J. W. Wright, C. E. J. Sendall, and F. C. Hewitt were re-elected directors.

SOUTHALL BROS. & BARCLAY, LTD.—The report for the year ended December 31, 1926, states that, after providing for bad debts, depreciation, income tax, directors' remuneration, and a cash bonus of £3,600 to employees and staff, there is a balance of profit of £50,350 12s. 7d. To this is added £31,211 14s. 9d. carried forward last year, making a total of £81,562 7s. 4d. Out of this has been paid an interim dividend on preference shares of £2,750, leaving a balance of £78,812 7s. 4d., which the directors recommend should be appropriated as follows: Second half-year's dividend on preference shares at the rate of 5 per cent. per annum (paid January 1, 1927), £2,750; year's dividend on ordinary shares at the rate of 10 per cent. per annum, free of income tax, £13,000; bonus of 1s. per share on ordinary shares, free of income tax, £6,500; to reserve, £20,000; balance carried forward, £36,562 7s. 4d.; making a total of £78,812 7s. 4d. The directors, in pursuance of the powers given to them by Article 13A of the company's articles of association, have passed a resolution providing for the distribution among the ordinary shareholders, by way of bonus, of two preference shares for every thirteen ordinary shares held, fractions to be sold and proceeds to be paid to shareholders entitled thereto. The necessary capital for the purpose, i.e., £20,000, will be transferred from the company's internal reserve to the credit of profit-and-loss account. Mrs. F. M. Sharp retires from the board, but, being eligible, offers herself for re-election.

The Progress of Pharmacy AND ALLIED SCIENCES

PHARMACY

Tinctura Eccoprotica.— H. Schlesch ("Farmaceutisk Tidende," February 10, 1927) draws attention to this preparation, which is extensively used in Iceland in the treatment of colicky pains, in doses of 2 to 20 drops. It is prepared as follows :—

Aloes	875 grams
Rhubarb root	250 grams
White agaric	155 grams
Gentian root	310 grams
Angelica root	310 grams
Zedoary root	60 grams
Dilute alcohol	9,000 grams

Digest, press the marc and add to the filtrate a solution of 750 grams of camphor in 2,000 grams of ether.

Mercury Peptonate.—The Dutch Army Medical Service recommends the use of injections of mercury peptonate in the place of mercuric chloride or other soluble salts of mercury, as being less painful than the latter. Two solutions are prepared ("Pharmaceutisch Tijdschrift voor Nederlandsch-Indië," December 1926) :—(1) A 6 per cent. solution of bactopeptone (May & Baker), and (2) a 2 per cent. solution of mercuric chloride, containing 1.5 per cent. of sodium chloride. These solutions are filled in ampoules of 0.5 c.c. and 10 c.c. and sterilised by heating to 100° C. for one hour. For use, the contents of an ampoule of solutions 1 and 2 are mixed immediately before making the injection; in the case of a single injection this mixture is effected in the hypodermic syringe.

Pancreatin Tooth-Paste.—Recently Danish dentists have evinced considerable interest in the action of pancreatin as a solvent for tartar, and as a result of a series of experiments, based on the investigations of H. Glahn, Eich, and I. Dorph (*C. & D.*, 1926, I, p. 855), the Vesterbro Pharmacy in Copenhagen suggests the following formula ("Archiv for Pharmaci og Chemi," January 15, 1927) :—

Calcium carbonate	50 grams
Sodium bicarbonate	10 grams
Pancreatin	3 grams
Oil of peppermint	1.5 grams
Menthol	0.3 gram
Methyl salicylate	1 drop
Glycerin of tragacanth	q.s. (about 100-130 grams)

The glycerin of tragacanth is prepared by rubbing 0.75 gram of tragacanth with 5 grams of alcohol (90 p.c.), then adding 95 grams of glycerin.

Bismuth Oil.—The Dutch Army Medical Service ("Pharmaceutisch Tijdschrift voor Nederlandsch-Indië," December 1926) directs that bismuth oil should be prepared by adding 3 grams of bismuth hydroxide to 40 c.c. of a 1 per cent. sterile solution of camphor in sesame oil, followed by sterilisation at 60° to 70° C. for one hour on three successive days. Bismuth hydroxide may be prepared by the following method : Dissolve 50 grams of basic bismuth nitrate in 65 c.c. of nitric acid, and add 200 c.c. of water. The solution, while warm, is poured into a mixture of 60 c.c. of solution of ammonia (25 per cent.) and 100 grams of water, with constant stirring. The precipitate is washed with water until one drop of the filtrate no longer shows an alkaline reaction to red litmus paper, whereupon it is collected upon glass plates and dried at a temperature below 60° C. Instead of drying the precipitate of bismuth hydroxide, it may be used while moist for the preparation of bismuth oil. In this case the moist precipitate is mixed with an amount of sterile wool fat equal to that of the basic bismuth nitrate originally employed, whereupon a filtered, sterile 1 per cent. solution of camphor in sesame oil is added to produce a uniform mass of the consistence of a soft ointment. After determining the bismuth content of the mass, it is diluted with the 1 per cent. solution of camphor in sesame oil until it contains 0.075 gram of bismuth hydroxide in each c.c.

Prevention of Mould in Syrups. — T. Sabalitschka ("Schweizerische Apotheker-Zeitung," February 12, 1927) has conducted a series of exhaustive investigations to establish the best method of preventing the occurrence of fungous growths in pharmaceutical syrups, electuaries, and mucilages, and comes to the conclusion that the methyl ester of *p*-oxybenzoic acid is the most suitable substance for this purpose. It exhibits a remarkably powerful action on bacteria and fungus, and in the small amount in which it is added to these preparations to ensure their preservation, it displays no harmful effects, even on prolonged administration. Further, it does not affect the taste of the preparation. Experiments carried out with the following six preparations, to which *p*-oxybenzoic methyl ester was added in the proportions stated against each, e.g. : Syrup, 0.05 per cent. ; syrup of manna, 0.05 per cent. ; syrup of marshmallow, 0.025 per cent. ; syrup of rhubarb, 0.075 per cent. ; carrageen gelatin, 0.125 per cent. ; mucilage of tragacanth, 0.1 per cent., showed that no fungous growth occurred on exposure for over 200 days to an atmosphere heavily laden with mould. Control tests carried out under similar conditions with sodium benzoate, salicylic acid, and sodium *p*-chlorobenzoate showed that none of these substances prevented the occurrence of mould ; only benzoic acid and thymol exhibited a preventive action in some preparations, but their use is excluded on account of their disagreeable taste, which is very apparent with the amounts that have to be used of either to ensure an effective preservative effect. It is suggested that the advisability of permitting the addition, as a preservative, of *p*-oxybenzoic methyl ester to certain official preparations in the new edition of the Swiss Pharmacopœia should be taken into consideration in view of the results reported by Sabalitschka, and which have been confirmed by other investigators.

PHARMACEUTICAL CHEMISTRY

Digitalis Standardisation.—W. R. Bond ("Journal of the American Pharmaceutical Association," February 1927, p. 137) concludes that the error due to individual variability may be lessened by from 30 to 50 per cent. in the Hatcher and Brody (cat method) of digitalis assay, by calculating the minimum lethal dose on the basis of the heart weight instead of body weight of animal. In the extreme case of decerebrate cats, one of which took nearly twice as much tincture as the other (17 c.c. against 9 c.c.), there was only 16 per cent. difference in weight, but the heart weights (13.4 and 7.3 grams) respectively were in excellent accord with the 45 per cent. variation in dosage of digitalis. The

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average m.l.d. on thirteen animals was 63.1 mg. of leaf per kilogram of cat and 14.45 mg. per gram of heart, the deviation being 12.9 per cent. for body weight and 9.7 per cent. for heart weight.

Colorimetric Assay of Strophanthus.—L. W. Rowe ("Journal of the American Pharmaceutical Association," Vol. XVI, p. 113) considers that strophanthus preparations can be assayed with fair accuracy in a preliminary way by the picric acid colorimetric method of Knudson and Dresbach ("J. Pharm. and Exp. Ther.," 21, p. 217), based upon the Baljet reaction. Ouabain solution (1 : 25,000) or tr. strophanth. U.S.P. strength, diluted 1 to 140, are quite suitable as standards, and purification of the solutions for comparative test is not necessary. The average variation in a series of eight unknowns was 10 per cent., and fair agreement was met with in later tests between frog and colorimetric assays. The activity indicated by colour method of assay is apparently proportional (though not equal) to alimentary absorption. The colorimetric method is noted as being unsuccessful with digitalis and as not suitable for squill, convallaria and veratrum as judged by trials on one batch of each preparation, the colour development being slow or not in proportion to physiological activity.

Determination of Mercury in Mercury Salicylate.—A. F. Murray ("American Journal of Pharmacy," Vol. 98, No. 12, p. 639) recommends the use of a mixture of ether and alcohol (equal parts) for dissolving out salicylic acid in the assay of mercury salicylate, the process finally devised being :—

Weigh 0.5 gram of mercury salicylate in a 150 c.c. beaker and dissolve it with the aid of gentle heat in 10 c.c. of sodium hydroxide solution (10 per cent. strength). Add 10 c.c. of sodium sulphide solution (10 per cent.), and boil. Remove from flame, and while still hot add carefully hydrochloric acid (10 per cent. strength) until the solution is acid, and then add another 5 c.c. A Gooch crucible is prepared by washing with distilled water, alcohol, and ether, with drying to constant weight at 110° C. The acidified mixture is filtered while still hot, and washed with hot distilled water until free from chlorides, then with two 5 c.c. portions of alcohol, following with 5 c.c. portions of a mixture of alcohol (one part) and ether (one part) until 5 c.c. of the washings, when diluted with 15 c.c. of distilled water, fail to give a reaction with one drop of test solution of ferric chloride. Finally wash with three 5 c.c. portions of carbon tetrachloride, dry at 110° C., and weigh.

The method in seven assays on 0.5 gram of the same sample gave 0.3411 to 0.3421 gm. of mercury sulphide in six instances, the seventh being higher (0.3451 gm.). It is pointed out that the method has the advantage that there is no liability of volatilisation of mercury.

Drug Deterioration by Polarised Light.—D. I. Macht and J. C. Krantz ("Journal of the American Pharmaceutical Association," February 1927, p. 106) have studied the destructive effect of polarised light on a number of drugs, and announce that clear-cut results have been obtained already in the case of digitalis tincture, and two crystalline alkaloids (cocaine and quinine). The remarkable feature of this phenomenon is that the deterioration is produced by ordinary (or long waves) of visible light, as the polarising Nicol, or pile of glass plates arranged at the polarising angle, did not allow ultra-violet rays to pass. Digitalis tincture irradiated by polarised light showed 10 per cent. loss of potency within one hour compared with original specimen, and control subjected to non-polarised light of equal (or even greater) intensity. This loss of activity was evident both in animal test or plant assay. The latter phytochemical method uses the effect of a 0.5 per cent. solution on the growth index of *Lupinus albus*. In the case of cocaine the phytopharmacological method is particularly sensitive, as one of the decomposition products (benzoic acid) is extremely toxic to plant protoplasm compared with slightly toxic cocaine. Goldfish are also very sensitive to cocaine anæsthesia, and this allows the comparative potency of dilute solutions (1 : 5,000) to be determined by observing time taken for onset of paralysis of fish placed therein. Cocaine solutions on irradiation for short periods with polarised light also showed marked deterioration in potency, both by plant and animal tests and increase in hydrogen ion concentration. Thus 12 c.c. of a 1 : 1,000 solution of cocaine hydrochloride on subjection to light from a 15-watt Mazda electric bulb passing through a Nicol prism took sixteen minutes to paralyse goldfish in 1 : 5,000 dilution, compared with six minutes if light was unpolarised. Quinine tartrate solutions (1 per cent.) also changed on exposure to polarised light in regard to reduction in both phytochemical and polarimetric activity.—D. I. Macht and J. H. Hill (*loc. cit.*, p. 110) have extended the investigation of the effect of radiant rays to Mercurochrome-220. The germicidal efficiency of 1 : 500 solutions did not show any reduction after exposure to ultra-violet rays from a quartz mercury vapour lamp or after exposure to polarised light.

The Faught Test for Acetone.—H. J. Schaeffer, in the "American Journal of Pharmacy" for December, 1926 (p. 643), states that the Faught test is of extreme value when it is desired to detect small quantities of acetone. The test has been avoided owing to the price of ethylene-diamine hydrate, which is almost prohibitive from the clinician's standpoint. The research was conducted to find the least amount of reagent that would give a pink or red zone at the point of contact with 5 c.c. of sample mixed with an equal volume of freshly-distilled water containing one grain of sodium nitroprusside. It was found that the addition of excess of ethylene-diamine hydrate will not hasten the reaction. The maximum results were obtained with known dilutions of acetone with one drop of 85 per cent. ethylene-diamine hydrate and a solution of four grains of sodium nitroprusside in 5 c.c. of freshly-distilled water. Indication of acetone to the dilution of 1 : 1,000,000 was obtained, the tests being performed in the cold owing to the volatility of acetone. A faint white cloud is ignored, as it does not indicate acetone. The concentrated reagent, though probably better than the original 10 per cent. test solution of ethylene-diamine hydrate, would be a complete failure from an economic standpoint. The author advocates the use of half-strength or 5 per cent. solution, one drop of which will indicate 1 : 5,000 of acetone after standing forty-eight hours and 1 : 1,000 in twenty-four hours. Sugar and albumin in urine do not interfere with the test. The following comparisons are given :—

Test	*Delicacy*	*Remarks*
Faught..	.. 1:100,000	Usable in presence of dextrose and albumin. Expensive
Legal ..	.. 1:10,000	Reliable for general use and inexpensive
Kolthoff	.. 1:2,500	Long process and impractical
Lieben ..	.. 1:1,000	Easily performed and reliable to 1:1,000
Dibenzal-acetone	1:500	Little value

It is concluded that Legal's test remains as the cheapest and most generally reliable.

The Stability of Atropine and Hyoscyamine has been investigated by S. Palkin and H. R. Watkins ("Journal of the American Pharmaceutical Association," January 1927, p. 21). It is shown by experiments that hyoscyamine and atropine in the form of salts of a strong mineral acid (particularly as sulphate) are stable in water solution, and also in the presence of a reasonable concentration of acid. Such solutions may even be boiled without danger of hydrolysis of the alkaloid. Hyoscyamine and atropine are stable in the form of free bases in organic solvents, such as chloroform and benzene, even at their boiling points, as well as in alcohol, provided this is reasonably free from water. Hyoscyamine and atropine are unstable in water alone or aqueous alkaline solution even in the cold, and hydrolysis is materially hastened by heating. Ammonia appears to exert much less hydrolytic activity than ordinarily supposed, 5 per cent. not effecting the least hydrolysis, provided the alcoholic strength was high. It is, however, pointed out that the hydrolytic action of water on atropine manifests itself when least expected, the moisture remaining after evaporation of chloroform being sufficient to damage the atropine residue if an attempt be made to drive off

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moisture and make it ammonia free. The error becomes even more serious if, owing to fear of deleterious action, the solvent is evaporated at a low temperature, as this prolongs the exposure to the action of water. The addition of 10 c.c. of absolute alcohol (to 50 c.c. of chloroformic extract) protected against hydrolysis even where 1 c.c. of ammonia water was present in the mixture. Great constancy of results was obtained by observing the precaution to evaporate the chloroformic alkaloidal solution only to a low volume (5 or 10 c.c.) instead of to dryness. As regards hyoscyamine, a mydriatic test showed that with proper precautions (as taken for atropine) this alkaloid remains unchanged throughout the assay process. From a purely analytical standpoint, the racemisation of hyoscyamine to atropine would not alter the alkaloidal titration. It is added in further precautionary measures that, whenever occasion demands that either atropine or hyoscyamine be brought into aqueous solution, acid should be present in at least equivalent amount, and preferably in excess (about 2 c.c. decinormal acid per 30 c.c. solution). For liberation of alkaloid preparatory to extraction the aqueous solution should be cooled and *immediately shaken* with a solvent to bring the bulk of the alkaloid into the organic solvent. An air blast should be used in evaporating chloroformic extractions on steam bath to low volume, after which $N/0.02$ sulphuric acid is added in slight excess before proceeding to evaporate off the remainder. When cool back titration may be done with $N/0.02$ alkali, using methyl red indicator. In no case should free alkaloid be allowed to stand in contact with water for any length of time, nor should free alkaloid be taken up for "direct titration" without acid.—Stikarofsky (*loc. cit.*, p. 30) gives heating of alkaloidal residue on water bath as one reason why assay of hyoscyamus tincture comes low. The alkaloid diminished from 0.078 per cent. to 0.0730 per cent. with two minutes' heating, and to 0.0450 per cent. with fifteen minutes' heating of the dry alkaloid on a water bath.

BACTERIOLOGY

Influenza Bacillus.—Drs. D. and R. Thomson ("Lancet," I, 1927, p. 252), in discussing the cause of influenza, state: About six weeks ago one of us contracted rather a severe attack of typical influenza. As we possessed a very good culture medium for *B. pneumosintes* we determined to make an attempt to isolate this organism. A swab from the left nostril was inoculated into the medium, and 5 c.c. of blood drawn off during the first day of the fever was distributed into two further tubes of the same medium. All the cultures were incubated anaerobically. *B. pneumosintes* did not appear in any of the tubes, but a pure culture of an unusual streptococcus was obtained from the nasal swab and also from the blood. The streptococcal cultures were plated, and the streptococcus from the nose and from the blood were found to be identical. This attack of apparently true influenza was thus probably due to a streptococcus which had its primary focus in the nose and which invaded the blood stream. In broth culture it is a small streptococcus occurring in fairly long chains, whilst on solid media it is extremely pleomorphic, showing large ovoid forms with pointed ends.

BOTANY

Transmission of Excitation in Plants.—J. C. Bose refutes the transpiration current theory of conduction of excitatory impulses in plants in a letter to "Nature" of January 8, 1927 (p. 48). It is pointed out: (*a*) That *Mimosa* can be excited by an electric shock that has one-tenth the intensity for human sensation. (*b*) The excitation is conducted both upwards and downwards simultaneously, and under moderate unilateral excitation the transmitted pulse ascends along one side to the apex and then descends the other. Transpiration could not possibly produce this result. (*c*) The rate of transmission is several hundred times quicker than that of the ascent of sap. Further positive evidence that the transmission in the plant is one of protoplasmic excitation is that this is correspondingly modified by all conditions which affect excitation in the animal nerve.

ANALYTICAL CHEMISTRY

Vanillin Assay.—For the rapid assay of commercial synthetic vanillin, V. Zanotti ("Bollettino Chimico-Farmaceutico," January 30, 1927) recommends titration with $N/10$ solution of sodium hydroxide, 1 c.c. of which neutralises 0.0152 gram of pure vanillin, using phenolphthalein as indicator.

Detection of Hydrogen Peroxide in Beverages.—"Chocolate soda" types of beverages are not amenable to preservation with the one-tenth of one per cent. of sodium benzoate usual in syrups for carbonated drinks. This led to the use of hydrogen peroxide in America during the summer of 1925 as a substitute for benzoate under identity concealing names such as "Blending Liquid," "Merchandise A," all of these, except one, being 3 per cent. hydrogen peroxide solution, the exception being perhydrol corresponding to 30 per cent. peroxide. C. D. Howard and N. Civen, of the U.S. State Board of Health state ("Industrial and Engineering Chemistry," January 1927, p. 161) that investigations indicate that the disappearance of this preservative from the finished beverage is by no means so speedy as claimed by promoters of its use. Statements made that the peroxide vanished in the finished syrup within a few minutes, so completely that it was impossible to detect it by analysis, were apparently based upon the bichromate method of detection which is valueless for small amounts of peroxide. The above authors state that there are grounds for considering the presence of peroxide in beverages as distinctly objectionable, especially as the practice is being extended largely to chocolated milk. Both this and chocolated soda are extensively consumed by children, which raises the question as to whether this free consumption may not provoke gastric irritation. The method of detection advocated as reliable consists in adding 1 or 2 c.c. of starch-potassium iodide test solution to 10 c.c. of *fresh* (unheated) milk, and flowing thereon about 5 c.c. of sample for production of a blue zone or a uniform blue colour on mixing. The reaction is dependent upon the peroxidase in unheated milk, and is a reversal of the test for heated milk. Every sample of chocolate soda based upon the cold process and known to contain peroxide gave positive tests, and showed that this did not completely disappear even after three weeks.

BIOLOGICAL CHEMISTRY

Physiological Rôle of Vitamin B.—V. Reader and J. C. Drummond ("Biochemical Journal," Vol. XX, No. 6, p. 1256) publish the results of experiments that appear to confirm the views of Dr. Gladys Hartwell that a definite relationship must exist between vitamin B intake and the amount of protein in a diet. Confirmation is given of the inadequacy of diets consisting largely of protein (caseinogen) and that this is made good by yeast extract (vitamin B). The experiments do not support the opinions that vitamin B stands in similar relationship to carbohydrate or total calorie intake. Hypertrophy of the kidneys only occurs in animals fed on diets mainly proteinic when growth rate is not normal, the excretion of nitrogenous end products of metabolism not causing damage to kidney tissues.

Dephosphorised Casein.—The name of "dephosphorised casein" was given by Rimington and Kay to the protein produced from caseinogen by the action of $N/0.25$ sodium hydroxide at 37° C. for twenty-four hours. This differs from ordinary casein only in containing minimal amounts of phosphorus. C. Rimington ("Biochemical Journal," XXI, p. 204) further finds that ammonia is liberated by the action of the alkali, and at the end of thirty hours approximately half of the total amide nitrogen has been eliminated. Dephosphorised casein gives all the colour tests for caseinogen. It is insoluble in water, but soluble in sodium hydroxide, requiring approximately the same quantity of alkali as caseinogen in order to complete its solution. Dephosphorised casein is only slowly attacked by proteolytic enzymes, and it is not coagulated by rennin.

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Vitamin B and Tissue Oxidations.—J. C. Drummond and G. F. Marrian ("Biochemical Journal," Vol. XX, No. 6, p. 1229) find that the oxidative activity of muscle and liver tissues is not reduced as a result of vitamin B deprivation. The fall of body temperature and decrease in oxygen consumption in the final phase of vitamin B deficiency are probably the natural consequence of exhaustion of reserve food materials, as shown by animals exhibiting premortal values showing recovery of approximately normal oxygen consumption on warming in a bath to normal temperature. The short duration of the recovery is in favour of the oxidative mechanism being unimpaired, but that available food is lacking. There is a concentration of the reducing substance in inanition and vitamin B deficiency, and hypertrophy of the adrenal glands is associated therewith. The conclusion finally attained is that (in rats) the nutritive failure following a deficiency of vitamin B is virtually identical with that of starvation, and that it is necessary to reject completely the view that vitamin B is essential for the production or functioning of the oxidative mechanism of the tissues.

Rapid Test for Vitamin D.—H. Jephcott and A. L. Bacharach ("Biochemical Journal," Vol. XX, No. 6, p. 1351), use the marked fæcal alkalinity developed by rats on a high-calcium low-phosphorus (rachitogenic) diet as a rapid and reliable test for vitamin D. A 2 per cent. suspension of fæces, uncontaminated with urine, is made by disintegrating with a glass rod in small-stoppered cylinders and shaking vigorously. The hydrogen ion concentration is determined electrometrically after filtering through a loose plug of cotton wool. Animals are prepared by feeding albino rats (20 to 40 days old) of 40 to 60 grams body-weight on Zucker's diet 401 until fæces are PH 7.3 or more, which takes ten to twelve days. The antirachitic unit of the food tested is taken as that quantity producing two consecutive daily readings of PH 6.7 or less, but not more than PH 6.8, the testing commencing on the third day. Physiologically acidic substances, such as ammonium chloride, cause similar effects, but this does not detract from the usefulness of the test in the case of substances of known origin, such as extract of cod-liver oil, to which the authors have applied the test for over two years. It is shown that the marked fæcal alkalinity on diet 401 is not affected by the administration of non-antirachitic substances (such as paraffinum liquidum, glycerol, or crude cholesterol in olive oil), and that the fæcal PH is reduced to the alkaline side of neutrality by cod-liver oil, irradiated cholesterol, or treatment with ultra-violet light.

The Biochemistry of the Aqueous Humour is the subject of a communication by S. Duke-Elder in the "Biochemical Journal" (Vol. XXI, No. 1, p. 66). The chemical analyses of aqueous humour and of a typical serum (both from the horse) are compared below, the stated quantities relating to weight in volume (grams per 100 c.c.):—

	Aqueous Humour	*Serum*
Water	99.6921	93.3238
Solids (dried at 100° C.)	1.0869	9.5362
Total Protein	0.0201	7.3692
Albumin	0.0078	2.9557
Globulin	0.0123	4.4135
Total Nitrogen	0.0268	—
Non-protein N	—	0.0239
Amino-acids	0.029	0.035
Urea	0.028	0.027
Creatinine	0.002	0.002
"Fats"	Trace 0.004	0.13
Cholesterol	? *Nil*	—
"Sugar"	0.0983	0.910
Salts:		
Sodium	0.2787	0.03351
Potassium	0.0189	0.0201
Calcium	0.0062	0.0101
Magnesium	0.0026	0.0028
Chlorine	0.4371	0.3664
Inorganic P (as P_2O_5)	0.0033	0.0030
Inorganic S (as SO_4)	0.0061	0.0058

The conclusion attained is that the aqueous humour is a dialysate from the capillary blood rather than the product of a special secretory mechanism.

"Provitamin" is the name proposed by O. Rosenheim and T. A. Webster for the precursor of vitamin D. This is to replace the term "vitasterol" previously suggested (*C. & D.*, Vol. CV, p. 934). Incidentally an addendum to their paper ("Biochemical Journal," Vol. XXI, No. 1, p. 127) on the relation of cholesterol to vitamin D makes the important announcement that ergosterol, or a sterol of similar constitution, is the parent substance of vitamin D (see also the "Lancet" of February 4). I. M. Heilbron, E. D. Kamm and R. A. Morton ("Biochemical Journal," XXI, p. 78). find that fractional crystallisation of purified cholesterol with ethyl acetate leads to the concentration of an "X" substance which is more insoluble and possesses an increased extinction coefficient for the three absorption bands of cholesterol before irradiation. Material in which the extinction coefficient had been increased approximately four times was found by Rosenheim and Webster on biological testing to be three to four times as active as the non-fractionated product, spectrographic results and animal tests thus showing remarkable agreement. The preliminary chemical investigation indicates that X-material has a slightly higher carbon content than cholesterol, and does not give the Liebermann reaction for the latter substance, nor is it precipitated by digitonin. Whereas cholesterol shows only general absorption, the "X" substance exhibits well-defined absorption bands at 293$\mu\mu$, 230$\mu\mu$, and 269$\mu\mu$. These bands disappear on irradiation with ultra-violet light with concomitant appearance of vitamin potency. It would thus appear that there is definite evidence for a correlation between absorption bands and a vitamin precursor, and it is obvious that the unknown substance is closely connected with the vitamin D precursor.

Colour Tests for Vitamin A.—S. G. Willimott, T. Moore and F. Wokes ("Biochemical Journal," Vol. XX, No. 6, p. 1292) have revised the views stated by the first two only a few months previously (loc. cit., p. 869), and now conclude that Fearon's pyrogallic acid test is not specific for vitamin A. These workers find that cod-liver oil still gives the Fearon colour test after all the vitamin A has been destroyed by sulphuric acid, phosphorus pentoxide, or exposure to ultra-violet light. They find that the arsenic chloride test of Rosenheim and Drummond and the antimony chloride test of Carr and Price are more sensitive than colour reactions with sulphuric acid or phosphorus pentoxide. It is noted that anhydrous chloroform should be used in preparing saturated solution of antimony trichloride, the reagent made with ordinary B.P. chloroform tending to become cloudy, which prevents a clean colour being obtained in the tintometer cell. The chloroform was dried by shaking with anhydrous sulphate for several days. The antimony trichloride test seems to be the most suitable for quantitative determinations of vitamin A, since it gives colours which persist longer. In view of the transient nature of the colours obtained with either antimony chloride or arsenic trichloride, it is suggested that colour comparisons should be taken not more than 30 seconds after mixing. A curve made by plotting blue units against time of irradiation shows that cod-liver oil in a layer not more than 1 cm. deep lost about half its potency in 75 minutes when exposed to radiations from a Hewittic mercury vapour lamp at a distance of 7.5 cm. Difficulty was met with in getting accurate tintometer readings after one-third of the vitamin A had been destroyed.—O. Rosenheim and T. A. Webster (*loc. cit.*, p. 1342) also present chemical and biological evidence that Fearon's reaction has no relation to vitamin A. They suggest that the chromogen arises from aldehydic oxidation of unsaturated fatty acids of the type of clupanodonic acid. A sardine oil gave as intense a Fearon reaction as a standard cod-liver oil without producing growth or having any effect on xerophthalmia.

Colour Tests for Vitamins.—O. Rosenheim and T. A. Webster ("Lancet," II, 1926, p. 806), in a critical study from the National Institute of Medical Research of colour tests suggested for vitamin A, point out that of the two colour reactions recently brought to notice,

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one at least has no value for the purpose intended, and may therefore be seriously misleading. In the first, a transient blue colour is developed by adding arsenious chloride or antimony chloride to cod-liver oil, and in the second, described by Fearon, a permanent red colour is produced by pyrogallol in the presence of trichloroacetic acid and an oxidising agent. As regards Fearon's test, the evidence appears to be quite definitely against its having any relation to vitamin-A. In the case of the colour reaction with $AsCl_3$ (or $SbCl_3$) the possibility of a direct relation of the chromogen to vitamin-A remains open. In connection with these colorimetric tests the effect of exposure to light and air on cod-liver oil was examined by parallel colour and feeding tests. The $AsCl_3$ colour reaction disappeared together with vitamin-A (as tested on the animal) when cod-liver oil was kept in loosely stoppered glass bottles exposed to light under laboratory conditions for eight weeks. Since the authors had previously observed that the chromogen responsible for the $AsCl_3$ reaction is rapidly destroyed by organic peroxides, the exposed oil was examined by various characteristic tests. The guaiacum test with peroxidase (from horse radish) was found to give a strong reaction. A distinct positive reaction was obtained with dilute blood (and guaiacum) and a strong reaction with potassium iodide-starch solution. Seven different samples of ordinary cod-liver oil, kept in the dark, were also tested, and of these one did not react with the $AsCl_3$ reagent. This particular oil gave a strong peroxide reaction and was found inactive in the growth-test. When mixed with an active sample of cod-liver oil it rapidly destroyed in this the chromogen of the $AsCl_3$ reaction. It would therefore seem that the peroxide reaction deserves to be considered in further work, in conjunction with other tests, when judging the vitamin value of cod-liver oils. The destructive action of both light and air on vitamin-A is well known, and it is surprising that this knowledge has not yet led to the more general supply of the oil in small bottles of brown glass.

INDUSTRIAL CHEMISTRY

The Phenol-Coefficients of Disinfectants.—The effect of variations of the PH value of broth used in the Rideal-Walker method of standardising disinfectants is reported upon by Quintin Moore ("Journal of the Society of Chemical Industry," December 31, 1926, p. 472T). The phenol coefficient is shown to be dependent upon the hydrogen ion concentration at which the broths are filtered during the standardisation process, a broth with PH 7.6 giving results comparable with accepted Rideal-Walker values. The table below summarises and compares results:—

Disinfectant Fluid	*Broth* PH 6.9	*Broth* PH 7.3	*Broth* PH 7.6
No. I	9.9	12.0	13.0
No. II	17.5	20.0	23.4
No. III	18.0	20.4	23.0

"Acrolite" is a new synthetic resin obtained by a condensation reaction between glycerol and phenol, which is described by J. McIntosh in "Industrial and Engineering Chemistry," January 1927 (p. 111). A typical mode of formation consists in heating phenol (100) and glycerol (70) with concentrated sulphuric acid (1) to 160°-180° C, removing water (35) as it is formed through a fractionation column. After cooling slightly, the excess acid is neutralised with calcium or barium carbonate or oxide, as these do not impair the dielectrical properties of the synthetic resin, which is reddish-brown in the acid state and deep purple when alkaline, this colour change being sharp and pronounced. The new synthetic resin can be heated to 325° C (or even higher after neutralisation) when it pours with water-like fluidity. It sets hard, with a brilliant lustre, on cooling, and is easily soluble in alcohol, acetone and other solvents. The alcoholic solution is an excellent insulating varnish. Hardening agents (4 to 12 per cent.), such as formaldehyde, paraformaldehyde, or hexamethylenetetramine, can be added to speed up the change from soluble-fusible to insoluble-infusible condition. It is claimed that acrolite withstands higher temperatures and has a superior lustre to any synthetic resin known hitherto.

The Examination of Perfumes.—According to Treff ("Zeitschrift für angewandte Chemie," 1926, 39, 1306) criticises the methods of examination of certain perfume materials usually practised. He states that xylene musk, for example, exists in two modifications, a stable form melting at 112°-113°, and a labile form melting at 105°-106°. He states that the formation of the stable form is influenced by sowing the melted musk, or a concentrated alcoholic solution, with a crystal of the stable form, or by recrystallisation from ether, benzene, toluene, or petroleum ether. He considers that the varying melting point of commercial musk is to be explained on this basis. This, however, does not appear to be supported by any direct evidence, nor even to be probable. It is well known that the near homologues of xylene musk have almost identical odours with that of xylene musk, so that the commercial article may well contain traces of the homologues which alter the melting point by a few degrees, without detracting from the odour value. Treff also thinks the generally accepted specific gravity of benzaldehyde is too high (1.050—1.055). He states that chlorine-free benzaldehyde only oversteps the limit of 1.050 on account of its benzoic acid content. This, again, is highly improbable, and not in accord with the experience of most chemists. The author says: "In a series of distillations with a pure sample of cassia oil different rates of distillation gave residues varying from 6 to 30 per cent." Upon this he bases his conclusion that distillations should be conducted as rapidly as possible. That the non-distillable residue of cassia oil—containing about 85 per cent. of cinnamic aldehyde—could be raised from 6 to 30 per cent. by any ordinary variations in the conditions of distillation is unlikely.

Relative Toxicity of Contact Insecticides.—F. Tattersall, G. T. Gimingham, and H. M. Morris ("Annals of Applied Biology," Vol. XII, p. 61 and p. 218; and Vol. XIII, p. 424) used adult black bean aphis (*Aphis rumicis*) and purple thorn moth eggs (*Selenia tetralunaria*) as test objects for obtaining quantitative results concerning the insecticidal values of plant products and organic chemicals. The toxicity of a number of plants, including some tropical fish poisons, was tested on *A. rumicis* in the form of aqueous or alcoholic extracts. The leaves and seeds of *Tephrosia Vogelii* were completely toxic in 1 per cent. solution in water or 0.1 per cent. emulsion of dried alcoholic extract. The roots and stems of white haiari and the stems of black haiari also possessed high insecticidal properties. The most toxic substance isolated was found to be identical with the tubatoxin of *Derris elliptica*, which was more potent than nicotine in its effect on *A. rumicis*. None of the other alkaloids tested approached nicotine in toxicity.—As regards organic chemicals, 2 : 4-dinitrophenol and 3 : 5 dinitro-*o*-cresol exhibited powerful insecticidal properties, killing eggs of *S. tetralunaria* with concentration between 0.1 and 0.2 per cent. The utility of these compounds as a winter spray is suggested (being injurious to foliage). Field tests confirm the high efficiency in the open against the eggs of hop-damson aphis on plum trees, no injury to the trees being observable. The strength of spray fluid was 0.15 to 0.25 per cent. of the dinitrocresol or its sodium salt, the latter showing slightly reduced toxicity. The most toxic naphthalene derivative was α-chlor-naphthalene. Toxicity increased with the introduction of a chloro- or nitro-group into the benzene ring, and a second nitro-group accentuated it still further.—English patent 261,055, by H. Maxwell Lefroy and the Græsser-Monsanto Chemical Works, states that the monohalogen naphthalenes kill flies and larvæ at such low concentrations as one part per million by volume. It relates to production of lethal concentrations by volatilisation from kieselguhr mixture or in sprayed hydrocarbon oil.—E. O. Essig (Bulletin No. 411, Agricultural Experiment Station, University of California, p. 1) recommends the use of *p*-dichlor-benzene for the destruction of root parasites on fruit trees. The applied dose averages 1½ or 2 oz. for a ten-year-old tree. The solid substance is placed in a trench and covered with earth.

(*To be continued.*)

Pharmaceutical Society
of Great Britain
Branch Meetings

Bristol.—At a meeting of the Bristol Branch, held on March 10, Mr. John Humphrey (member of Council) gave an address on *The Position of the Society*. Supposing, he said, every member were to sever his connection with the Society, it would still survive and be able to continue all its statutory functions. It would still remain truly representative of British pharmacy as a whole, whereas no merely trade organisation can exist without members. In the one case the Society is all-important, and can function whether those it represents subscribe to it or not; to other organisations, however, members and subscriptions are requisite before they can be said to exist. Further, no merely trade organisation is representative of more than a section—usually proprietors of pharmacies. But the Society represents every one of us, subscribers or not, throughout life, from the moment when we register as students to the time when we reach the end of the chapter, and our names are perforce removed from the register. In every sense of the word, therefore, the Society represents pharmacists as no other body can do. That a purely voluntary body, the executive of which is elected by the free votes of its members, should occupy such a position as does the Pharmaceutical Society seems, of course, entirely illogical, and we are told that such a condition of affairs could not conceivably be imagined if pharmacy and the sale of poisons were nowadays to be regulated from the beginning. We should, as a matter of principle, be placed under the control of some Government department, or some body like the General Medical Council, specially set up for the purpose. But the plan agreed upon in 1868 has worked extremely well, and, whether logical or not, there is no valid reason for serious modification of the existing position. Some well-meaning persons in the ranks of pharmacy have thought that the Government inquiry now proceeding afforded a favourable opportunity for scrapping existing arrangements in favour of something on a more logical basis. One in particular has proposed formally that all the Society's statutory functions should be transferred to a new non-elective body on which pharmacy should have only limited representation, and that what there remained of the Society should be linked up with existing trade organisations. It is difficult to understand such an attitude on the part of anyone who knows what the Society has done and how well it has served the public. Possibly the explanation is that advocacy of the destructive policy referred to is dictated by fear that a time may come when control of the Society's affairs will pass into the hands of persons who are unfit to exercise such control. No encouragement should be given to candidates for seats on the Pharmaceutical Council who promise to represent sectional interests and seek to utilise the Society's powers and resources as a direct means of improving trade conditions. That way madness lies, and the risk of injuriously affecting the Society's status. It is only indirectly, as through the medium of improved training and education, that the Society can improve the business position of chemists and druggists. Members of the Council should, therefore, continue to be selected from those who are prepared to work for the good of pharmacy through devotion to the public interest.

Manchester.—A joint meeting of the Manchester and Salford Branch of the Pharmaceutical Society and the Manchester Pharmaceutical Association was held in the Medical Lecture Theatre at the University on March 9, Mr. W. Kirkby, M.Sc., in the chair, when Professor W. E. S. Turner, D.Sc., M.Sc., Professor of Glass Technology, gave a lecture on *The Natural History of the Glass Container*, illustrated by lantern slides. Professor Turner, in his introductory remarks, gave a brief historical survey of glass manufacture. He exhibited on the screen lantern slides of glassware, vases, jars, flasks, bottles, etc., dating from Roman times. Professor Turner then dealt with the general and chemical composition of glass, and exhibited the formula of the various types of glass. The process of bottle manufacture was also described

Pharmaceutical Society
of Northern Ireland
Council Meeting

THE monthly meeting of the Pharmaceutical Society of Northern Ireland was held on March 18, in the Society's headquarters, Scottish Provident Buildings, Belfast, the President (Mr. Horatio Todd, J.P.) in the chair. There were present also: Mr. A. C. McBride, J.P. (Vice-President), Messrs. J. E. Connor, J.P., J. F. Grimes, J.P., J. Dundee, W. J. Rankin, S. Suffern, Fred. Storey, J. Moffet, W. J. Hardy, W. S. Taylor, Professor Small, M.P.S., and Dr. S. E. A. Acheson. Apologies were received from Messrs. T. W. McMullan, M.P., W. E. Wilson, J. C. Culbert, John Maxwell, and H. Lancashire, J.P. Mr. D. L. Kirkpatrick (secretary) and Professor Wren (Municipal College of Technology) were in attendance.

THE PRESIDENTIAL CHAIN OF OFFICE

At the outset of the proceedings Mr. Connor invested the President with the badge of office, expressing the hope that he (the President) would be long spared, not only to occupy the chair, but to assist them in their deliberations.

RESIGNATION OF A MEMBER

Mr. H. G. Pring wrote resigning from the Council on health reasons and pressure of other business.

Mr. CONNOR suggested that a deputation should wait on him to ask him to reconsider his decision.

Mr. MCBRIDE seconded, and the deputation selected was the President, Mr. McMullan, Mr. Dundee, and Mr. Hardy.

DRAFT ORDER

The Ministry of Home Affairs for Northern Ireland forwarded the following draft order: In accordance with subsection (2) of Section 17 of the Pharmacy and Poisons Act (Northern Ireland), 1925, after consultation with the Council and with the consent of the Ministry of Finance, it is hereby determined that:—

(1) The annual licence fee for pharmaceutical chemists shall be £3 3s., and that for chemists and druggists and registered druggists shall be £2 2s.

(2) Pharmaceutical chemists, chemists and druggists, and registered druggists may in any year obtain a licence after the 31st March, the 30th June, and the 30th September on payment of three-quarters, one-half, and one-quarter respectively of the full licence fee appropriate to their qualification, which licence shall expire on the 31st December in that year.

(3) Chemists and druggists and registered druggists who, having paid the full annual licence appropriate to their qualification, subsequently become qualified and registered as pharmaceutical chemists, may in any year obtain the licence of pharmaceutical chemist after the 31st March for 15s. 9d., after the 30th June for 10s. 6d., and after the 30th September for 5s. 3d., which licence shall expire on the 31st December in that year.

The PRESIDENT said they would all agree to the draft order, which was passed.

EDUCATION COMMITTEE.

The secretary presented the report of the Education Committee, which met prior to the Council meeting.

It was resolved that the examinations be held during the week commencing June 13, 1927, and that the last date for entry be May 12, 1927. The following were recommended as examiners for the year 1927 for the examinations under Schedule 2, Part IV, and Part II (6) 4 of the Act: Mr. Theo. Harper, pharmacy and practical pharmacy; Mr. James Guiler, pharmacy and practical pharmacy; Professor Wren, chemistry and physics; Professor Small, botany and pharmacognosy; Mr. Fred. Walsh, business methods. It was recommended that the Council should invite the following to attend the examinations in June: Mr. F. E. Bilson, President, Pharmaceutical Society of Great Britain; Mr. Edmund White, past-President Pharmaceutical Society of Great Britain; Mr. D. Lloyd-Howard, chairman, Executive Committee; and Mr. F. W. Hampshire, secretary of Pharmaceutical Conference. Eight members were elected.

Festivities

The I.O.O. Dinner

THE annual dinner and dance of the Institute of Ophthalmic Opticians was held at the First Avenue Hotel, London, W.C., on March 17, Mr. Owen Aves (chairman) presiding. Among the chemists present were Messrs. T Leigh Bennett, J. Harcombe Cuff (editor of "The Refractionist"), F. S. Horsey, and A. Upson, J.P. In proposing "The Institute," Sir Robert Gower, M.P., after referring to the increase in the number of students at the Refraction Hospital and the research work being carried on by the Institute, said that if members of Parliament understood the Optical Bill they would have no doubt about supporting it, and if opticians succeeded in bringing the salient points before them there would be no doubt about its being placed on the statute book. Mr. O. Aves, in reply, said members of the Institute had shown courage, fidelity and (after struggling for twenty-two years) tenacity of purpose. There were 3,000 fully qualified opticians in the country, and 2,000 of these were members of the Institute. He had every reason to believe that the Optical Bill would become law, if not during the present session, during the lifetime of the present Government. Mr. A. Upson, J.P., in his welcome to "The Visitors," said that the Institute had some time ago sent out a *questionnaire* to members of Parliament, more than half of whom had expressed themselves in favour of the proposals which had been incorporated in the Optical Bill. There were a few dissentients on behalf of the unqualified opticians, but as their fears had been removed by the Bill, he hoped due and favourable consideration would be given that measure. Mr. H. Williams, M.P., Mr. S. P. Viant, M.P., Dr. Margaret Dobson and Mr. W. B. Barker (President of the British Optical Association) briefly responded. The first-named said he had received a communication from some ophthalmologists who did not wish the opticians' Bill to succeed, as they objected to what they regarded as unqualified practice. This view he regarded as farcical; the ophthalmologists should promote a Bill to prevent opticians practising at all, otherwise why should they object to the latter raising the standard of their profession? The speeches were interspersed with an excellent musical programme, and dancing commenced about 10 o'clock.

S.E. London Chemists' Dinner

THE annual dinner and dance of the South-East London Chemists' Association was held at the Restaurant Frascati, Oxford Street, W.1, on March 17, the President (Mr. H. S. Foster) in the chair. Supporting the President at the top table were Mrs. Foster, Mrs. A. R. Keith, Mr. John Humphrey (representing the Council of the Pharmaceutical Society), Mr. A. Arrowsmith, Mr. T. Beech, Mr. C. G. Bonner (President of the Western Pharmacists' Association), Mr. W. B. Falding, Mr. F. A. Lawman (President of the Ealing Pharmacists' Association), Mr H. N. Linstead (secretary of the Pharmaceutical Society), Mr. E. G. Price, Mr. G. A. Tocher, Mr. J. T. Walters (President of the North London Pharmaceutical Association), Mr. F. G. Wells (President of the South-West London Chemists' Association), and Mr. A. J. Wing. Among the large gathering—a record in the Association's history—we noticed Mr. T. W. Cleave, Mr. T. M Ford (S. Maw, Son & Sons, Ltd.), Mr. F. Giles, Mr John Royle (J. W. Royle, Ltd.), Mr. Philip Royle (Ingram & Royle, Ltd.), Mr. J. Saunders (Willows, Francis Butler & Thompson, Ltd.), Mr. W. P. Want, and representatives of many wholesale houses besides those mentioned. A small orchestra played at intervals during the excellent dinner, and at its close six brief speeches followed in quick succession. Mr. A. J. Wing set the pace with the toast of "The Pharmaceutical Society," with which he coupled the name of Mr. John Humphrey, long associated with the Society as editor of its journal, examiner, and now member of its Council. Mr. Humphrey, in reply, condensed into the space of a few minutes a good deal of useful information about the Society. He pointed out that with two-thirds of the registered people on its list of members it was in a strong position. The Council, Mr. Humphrey continued, wanted members to be consistent and to help the Parliamentary Fund: unless they got a pharmacist into Parliament they were soon going to lose privileges. Next month he would complete his fiftieth year in pharmacy—(Applause)—and he could assure those present that there was no "catch" in being a member of the Council. (Laughter.) In his concluding sentences Mr. Humphrey made an eloquent reference to the loss sustained the Vice-President of the Society (Mr. Herbert Skinner), whose telegram wishing the Association a successful evening was afterwards read by the chairman. The second toast, that of "The South-East London Chemists' Association," was submitted by Mr. F. G. Wells, who referred to the work put in by the President as a member of the Pharmacists' Volunteer Corps in the years 1915-19. The President, added Mr. Wells, was a good sportsman—a tribute which the gathering endorsed by according the toast with musical honours. Mr. Foster's response was brief and aptly worded; he praised Mr. Wells's war service, thanked the visitors for their attendance (mentioning that Mr. Lawman had travelled from Liverpool for the event), and reinforced Mr. Humphrey's appeal for the Parliamentary Fund. The final toast, "The Ladies and Visitors," inspired clever and amusing speeches from Mr. J. Milner and Mr. H. N. Linstead, the respective proposer and responder, with, at the end of the reply, an announcement that the Association had undertaken to raise £250.

Western Pharmacists' Association

A MEETING of the Western Pharmacists' Association was held at 192 Oxford Street, W.1, on March 23, the President (Mr. C. G. Bonner) in the chair. Three subjects were discussed during the evening. Introducing *Some Dispensing Difficulties*, Mr. W. Browne dealt first with prescriptions containing liquor plumbi. The following were instanced.—(1) Liq. plumbi ʒviij. Sig. ʒj. ad aq. Oj. (2) Liq. plumbi ʒiv., aq. ad ʒviij. Ft. collyr. (3) Liq. plumbi ʒj., aq. ad ʒviij. Ft. lot. What should be dispensed in each case? Another problem was tr. chlor. et morph. with a 30-minim dose (not initialled). Then there was the deliquescence of caff. cit. with certain substances ordered to be sent out in cachets. Other difficulties were spray solutions containing more solid matter than was soluble in the quantity ordered (e.g., cocaine in liquid paraffin, borax in water) and "formalin, 10 per cent." Dr. Lanyon-Owen, an honorary member, suggested that most medical men mean the dilute solution of lead subacetate when they prescribe "liquor plumbi" and by "tr. chlor. et morph." intend the tincture of the 1885 Pharmacopœia. Other points that emerged in a lengthy discussion were the desirability of consulting the prescriber (when he could be found); the comparative neglect of tr. chlorof. et morph. co., B.P. 1914, by medical men; the need for the use of common sense and discretion; the impossibility of the proprietor of a pharmacy being always present; the advisability of marking the solution of a difficulty in the margin of the prescription. A member related that he once pleased the late Mr. Gladstone by adding pulv. acaciæ to a bismuth carbonate mixture, with the result that the distinguished patient afterwards refused to take a mixture prepared without a suspending agent; and the President quoted from a letter received from a medical man explaining that he had not seen a pharmacopœia for many years. (Laughter.) Mr. C. A. Noble took charge of the second subject, *The Present Position of N.H.I. Dispensing*. Mr. Noble pointed out that in the past year the quantity of Insurance dispensing in the London area broke all records, and that during January 1927 more than a million prescriptions were dispensed. His advice to London panel pharmacists was to stick to the L.I.P., and, in the event of a complaint, to appear if summoned to do so. With a depleted drug fund, the lot of the Retail Pharmacists' Union was not a happy one. The ensuing discussion turned largely on frequency of prescribing and on the ordering of expensive foreign remedies. The third subject, *Labour-saving Devices in the Pharmacy*, was briefly introduced by Mr. P. S. Windwood. After a brief discussion, a vote of thanks to the principal speakers terminated the proceedings.

Personalities

MR. E. C. LAST, chemist and druggist, High Street, Watford, has been elected President of the local Rotary club.

MR. J. A. PEGG, chemist and druggist, Mansfield, has been elected chairman of the council of the local chamber of commerce for the third year in succession.

MR. H. S. PAUL (B. K. Paul & Co., chemists), Calcutta, will be accompanied on his forthcoming visit to England by Mr. H. Nag, of the same firm, who also has many friends in this country.

SIR MAX MUSPRATT, BT., was the guest of honour at a dinner given by the directors of The United Alkali Co., Ltd., at Liverpool on March 22, and was afterwards presented with his portrait in oils.

MR. R. C. SPURIN, chemist and druggist (late of Plymouth), and MRS. SPURIN recently celebrated their diamond wedding at Ashwater, Devon, where they now reside. A congratulatory message was received from his Majesty the King.

MR. JOHN HUMPHREY, Ph.C., is circulating to the members of the Harrow Branch of the Pharmaceutical Society (of which town he is a resident) a concise and pointed appeal to support the Pharmaceutical Parliamentary Fund. Mr. Humphrey's position as a member of the Society's Council enables him to write with exact knowledge of the position.

MR. F. F. RENWICK, A.C.G.I., F.I.C., who has been elected President of the Royal Photographic Society, joined the staff of Ilford, Ltd., as a chemist in 1898, and remained with the company until 1922, when he became director of laboratories in the photographic film branch of the E. I. Du Pont de Nemours Co., New Jersey. In 1925 he returned to this country and became director of technical research for the group of companies associated with Ilford, Ltd.

Wills

MR. ALEXANDER ANDERSON ADAM, chemist and druggist, Holmvale, Airlie Place, Alyth, Perthshire, who died on November 28 last, left personal estate in Great Britain valued at £1,852 2s. 5d. Probate has been granted to Mrs. Annie Ogilvy Johnston Adam.

MR. JOHN DOUGLAS DALE, chemist and druggist, 101 Ecclesall Road South, Sheffield, who died on January 13 intestate, left estate of the value of £1,044 13s. 2d., with net personalty £276 13s. 7d. Letters of administration have been granted to his widow, Mrs. Marie Therese Dale.

MR. ROSCOE BRUNNER, D.L., J.P., Belmont Hall, Northwich, and The Green Cottage, Roehampton, Surrey, who died on November 3, left unsettled property of the gross value of £146,948 12s. 4d., with net personalty £83,984 19s. 7d. Probate has been granted to his brother, Sir John Fowler Brunner, Bart., 43 Harrington Gardens, S.W., and his son, Anthony Brunner, Roehampton Court, Roehampton, power being reserved to grant probate also to Sir Arthur Whinney and (on his attaining the age of twenty-five years) his son, Patrick Brunner.

MR. MATTHEW CHARLES MANSBRIDGE, retired chemist, Grove Cottage, Stalbridge, who died on January 21, left estate of the gross value of £9,483 19s. 10d., with net personalty £8,693 16s. 4d. The testator left, subject to certain pieces of jewellery to his sons Harold and Osmore Norman, all of his property upon trust for his wife for life, and on her decease, £50 to the Church Missionary Society, £50 to the British and Foreign Bible Society, £50 to Dr. Barnardo's Homes, £100 to Clara Ralfs, £600 to each of the children of his late son John, and the residue of his property to his sons Harold and Osmore Norman in equal shares.

MR. JAMES ARTHUR BUTLER, Woodside Park Road, Birstall, Leicester, carrying on business as T. E. Butler, Son & Co., manufacturing chemists, Cart Lanes, Leicester, who died on November 5, left £19,990 14s.3d., with net personalty £2,088 10s. 11d. The will is proved by Harry Arthur Butler, son, and William Astin. He gives his business to his son Harry, subject to the payment by him of £2 a week to Mrs. Butler, a policy of insurance on his life to his wife, the household effects to his two daughters, £25 to his daughter-in-law, Lillian, £50 to his assistant, Frederick Hinton Pick, £25 to his assistant, Beatrice Margaret Pallett, and the residue between his three children.

MR. CHARLES ALBERT BLATCHFORD, 90 Clapham Road, London, S.W., of Charles A. Blatchford & Sons, Ltd., artificial limb manufacturers, who died on April 13, 1926, left a will, probate of which has been granted to his sons, C. D. W. Blatchford and W. A. D. Blatchford, and P. E. B. Fooks. The testator left £100 to Mr. Fooks as executor, his interest in premises 14 Fairmount Road, Brixton Hill, S.W., to his son W. A. D. Blatchford, 60 shares in Charles A. Blatchford & Sons, Ltd., to his brother-in-law, W. D. Campbell, his remaining shares in the said company to his sons, C. D. W. Blatchford and W. A. D. Blatchford, £500 to his niece Ethel Joselin. There are other bequests. The property has been sworn as of the gross value of £22,355 6s. 10d., with net personalty £20,655 6s. 10d.

Business Changes

BURKETT, SHARP & CO., LTD., have removed to more commodious premises at 8 Harp Lane, London, E.C.3.

LUNDY WILSON & CO., LTD., proprietary medicine makers, have removed to 19, Beer Lane, Great Tower Street, London, E.C.3.

MR. H. N. LEVER, chemist and druggist, Merehall Pharmacy, Bolton, is opening a branch at 40 Deane Road, where representatives of wholesale houses will be interviewed instead of as formerly.

MR. W. H. PARRY-JONES, chemist and druggist, Gowerton, has taken over the business of Mr. M. W. Jenkins, chemist and druggist, St. Clears. Mr. Parry-Jones was previously at St. George's Hospital, London.

MR. WALTER J. CROOK has converted his business into a limited liability company under the name Walter J. Crook, Ltd., and has appointed Mr. Gerald McDonald to be managing director. The telephone number is "Royal" 1002.

MR. C. M. PARKINSON, chemist and druggist, 15 Astley Gate, Blackburn, is removing to 1 Mincing Lane. The business was founded in 1835 by Mr. W. B. Slater, who disposed of it to his ex-apprentice, Mr. C. Parkinson, father of the present proprietor.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Vitaminised Oils.—A process of vitaminising edible oils, consisting in dissolving a vitamin initially possessing an objectionable flavour in an edible oil, and subjecting the mixture to a mild refining treatment. (A. W. Owe. 266,139.)

Stoppers for Bottles.—A stopper for poison and other bottles, comprising a hollow compressible top having an orifice in which is gripped a device that will produce a distinctive sound when the stopper is grasped to remove it. (H. Woolstencroft and A. E. Foxcroft. 266,032.)

Collapsible Tube.—A collapsible tube having its exit orifice situated at the side of one end, the exit being provided with a valve which opens to permit the extrusion of the contents on pressure being applied to the tube, and closes when the pressure is released. (H. C. Mason. 266,021.)

Organic Auromercapto Compounds.—A process for the manufacture of organic auromercapto acids and their salts by allowing an auric salt to react upon the corresponding acid, or its salt, in the presence either of sulphur dioxide, or an acid or neutral salt of sulphurous acid. (Chemische Fabrik auf Atkien. (vorm. E. Schering. 265,777.)

Births

Notices for insertion in this column must be properly authenticated.

SUMPTION.—At "The Beeches," Blackwood, Mon., on March 16, the wife of A. C. Sumption, M.P.S., F.S.M.C., F.B.O.A., of a son.

WEBB.—On March 17, Margaret (*née* Harrison), the wife of Fred Norman Webb, M.P.S., Southwold, of a son (Norman Harold).

Marriages

ALGAR—ALGAR.—At the oratory of Saint Mary Magdalen, Wandsworth Common, London, S.W.18, on March 12, Edward William Algar, M.P.S., F.S.M.C., 66 Wroughton Road, Clapham, S.W.11, to Kathleen Mabel, daughter of the late Captain Algar, R.E.

CAMBRIDGE—REID.—At Kilmore (East), Monaghan, by special licence, on March 2, Thomas Reid Cambridge, R.D., son of Mr. R. Cambridge, J.P., chemist and druggist, Carrickfergus, to Mary Elizabeth (May) Reid.

PARRY-JONES—JOB.—At Argylle Church, Swansea, on March 1, W. H. Parry-Jones, M.P.S., St. Clears, youngest son of the late Dr. W. R. Parry-Jones, Wrexham, to Gertrude Job, daughter of Mr. David Job, "Gwenallt," Gowerton.

PRICE—ANDREWS.—At the Methodist Church, Rhayader, on March 22, Thomas Charles Price, chemist and druggist, Rhayader, to Elizabeth Andrews.

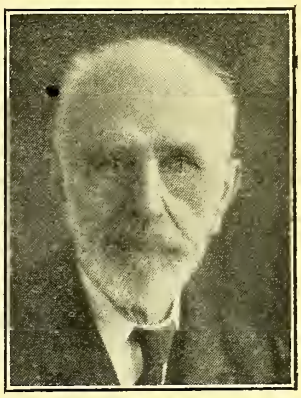
Deaths

AITKEN.—At 16 Hope Terrace, Edinburgh, on March 17, Mr. Robert Aitken, chemist and druggist, senior partner of H. C. Baildon & Sons, chemists, 73 Princes Street and 26 Shandwick Place, aged seventy-seven. Mr. Aitken served his apprenticeship to Mr. William Moore, Stirling, and then became an assistant with Mr. H. C. Baildon. After passing the Qualifying examination in 1869, he had experience with John Bell & Co., Oxford Street, London, W., until Mr. Baildon sought his services as manager. On Mr. Baildon's death his son, Dr. H. B. Baildon, M.A., Ph.C. (well known to fame as a friend of Robert Louis Stevenson), continued the business for a time in partnership with Mr. Aitken; eventually Dr. Baildon adopted a literary career and Mr. Aitken became sole proprietor. The business was founded in Waterloo Place by Thomas and Charles Butler in 1821, and was removed to Princes Street seven years later. Although he took no prominent part in public affairs, Mr. Aitken was a member of Edinburgh Merchant Company, in which he held the office of Assistant from 1903 to 1906. While in London he made a hobby of microscopy, and after his return to Edinburgh he contributed to THE CHEMIST AND DRUGGIST interesting papers on the use of the microscope in pharmacy and on galenical problems. Mr. Aitken is succeeded in business by his son, Mr. A. Campbell Aitken, who qualified in 1903 and, like his father, had experience with John Bell & Co.

MR. R. AITKEN

CLARKE.—At Belfast, on March 19, Mr. William Lindsay Clarke, youngest son of the late Mr. John Clarke (John Clarke & Co., wholesale druggists, 12 Corporation Street). Mr. Clarke took an active part for some years in the management of the business founded by his father; eventually he left the drug trade, and his firm was succeeded by Elliott, Thompson & Blair.

CUSSONS.—At Matlock, on March 18, Mr. Thomas Tomlinson Cussons, chemist and druggist, director of Cussons, Sons & Co., Ltd., soap and perfumery manufacturers, Manchester, aged eighty-eight. Mr. Cussons was in business prior to the coming into force of the Pharmacy Act, 1868; he qualified by examination, however, in 1869. Until a few months ago he took an active part in the management of his company. Mr. Cussons was of an unassuming and genial disposition, and was highly esteemed. The interment took place at St. John's Church, Pendlebury, on March 21. Messrs. Cussons's Kersal and Radcliffe works were closed for the day as a mark of respect.



MR. T. T. CUSSONS

DALTON.—At 26 Somerset Road, Teddington, on February 13, Mr. Francis Dalton, chemist and druggist, aged seventy-nine.

HOVENDEN.—At Cranbrook, South Border, Purley, on March 15, suddenly, Mr. Charles Hovenden (R. Hovenden & Sons, Ltd., druggists' sundriesmen, 29/33 Berners Street, London, W.1), aged sixty-two.

KEY.—At Red Deer, Alberta, on March 5, Dorothy Estlin, wife of Mr. George B. Key, jun., younger son of Mr. George B. Key, chemist and druggist, Kirkcaldy.

LEWIS.—On March 17, Scion Jane Lewis, chemist and druggist (Lewis & Harris, Ltd., chemists, 288 Upper Street, Islington, London, N.1). The business of Lewis & Harris, Ltd., was registered as a private company early in 1926.

MORRISON.—At Otterburn, Douglas Street, Motherwell, on March 8, Mr. William Morrison, chemist and druggist. Mr. Morrison qualified in 1905, and acquired the branch business of Mr. D. Baillie, chemist and druggist, at 28 Brandon Street, Motherwell, in 1912.

PALMER.—At 57 Marine Avenue, Hove, on March 15, Mr. Harry Palmer, M.R.C.S., L.R.C.P., aged sixty-seven. Mr. Palmer was the London representative of Fletcher, Fletcher & Co., Ltd., manufacturing chemists, Holloway, N.7, in the 'nineties, and had previously represented Allen & Hanburys, Ltd. He qualified as a medical practitioner in 1918.

PEARSE.—At Plymouth, recently, Mr. Robert Rowe Pearse, L.S.A., late managing director of the Burma Chemical Industries, Ltd., Rangoon, aged sixty-two.

POWELL.—At 8 West Halkin Street, London, S.W.1, on March 17, Mr. Samuel Rider Powell, chemist and druggist, proprietor of Williams & Elvey, chemists, aged sixty-seven. Mr. Powell acquired in 1911 the old-established business in which he had previously been an assistant. It is traditionally believed that at one time the trade consisted entirely of dispensing, the only article sold over the counter being eau de Cologne. Mr. Powell, who was unmarried, was a regular attendant at the meetings of the Western Pharmacists' Association. He was an accomplished photographer, and, accompanied by his dog, made innumerable cycling tours.

RAMSHAW.—At Wigan Infirmary, recently, following an operation, Mr. Thomas Rawsthorne Ramshaw, wholesale druggist, Wallgate, aged sixty-one.

TIGHE.—At Exeter, on March 13, Mr. John Wynne Tighe, chemist and druggist, aged sixty-three. Mr. Tighe was the proprietor of a pharmacy established by his father; of late years his sons, Mr. Cyril Wynne Tighe, chemist and druggist, and Mr. Paul Wynne Tighe, had been associated with him in business. He was interested in the drama, cricket, and cycling. A widow and two sons survive him.

Trade Notes

BELTONA.—Beltona, Ltd., High Street, Hoddesdon, have introduced a new size of Beltona, retailing at 1s. 3d. The company's advertisement gives examples of orders upon which a bonus for display is allowed.

SKETOLENE.—Stafford Allen & Sons, Ltd., manufacturing chemists, Cowper Street, London, E.C.2, make a bonus for window display of Sketolene, the mosquito deterrent. An advertisement in this issue gives the particulars.

BOVRIL BONUS.—Bovril, Ltd., 148-166 Old Street, London, E.C.1, call attention to the bonus scheme which began on March 1 in connection with Bovril and Invalid Bovril. Particulars of the scheme and entry card can be obtained from the company on application.

"NEWS OF THE WORLD."—The advantages of advertising toilet specialities to the public in the "News of the World" are set forth in a two-page advertisement of this popular Sunday periodical in the colour pages of this number. It is claimed that four million people read the paper weekly.

MOORLAND HEART SHAPE TABLETS.—W. B. Cartwright, Ltd., Rawdon, near Leeds, have sent us a set of new showcards for Moorland heart shape tablets. These are in two sizes and of the cut-out variety, as shown in the coloured advertisement in this issue. The design and colouring will make these showcards attractive in the pharmacy and with the public.

BOURNVILLE ANNUAL, 1927.—The cultivation of cocoa is the subject of the 1927 annual issued by Cadbury Bros., Ltd., Bournville, Birmingham. The development of the native trade in raw cocoa in British West Africa is brought out. The value of the export of this product from the Gold Coast in 1925 was eight million pounds, representing nearly half the world's supply.

ASHES OF ROSES POUDRE TALC.—A. Bourjois et Cie, Ltd., 4 Water Lane, Blackfriars, London, E.C.4, are introducing a new talcum powder in the Ashes of Roses series. This is packed in a distinctive oval tin, enamelled in green and gold, with the rose decoration in red. It is referred to in an advertisement in this issue, where further details will be found.

WARDONIA RAZOR BLADES.—Thomas Ward & Sons, Ltd., Wardonia Works, Sheffield, have instituted a special bonus scheme in connection with Wardonia razor blades. For two months beginning April 1 a bonus of one dozen shaving brushes, selling at 2s. 6d. each, is to be given with each £5 lot of blades. It is noted that the retail price of Wardonia razor blades is strictly maintained at 1s. 3d. for five.

VULTEX PATENTS.—Vultex, Ltd., General Buildings, Aldwych, London, W.C.2, have concluded a reciprocal agreement with the United States Rubber Co. with regard to American patents. The Vultex patents cover the new process of vulcanisation of rubber latex, invented by Dr. Philip Schidrowitz, which is considered to be a great advance on the usual practice of rubber manufacture. Vulpro goods are made by this method.

HARLENE DEVELOPMENTS.—Edwards' Harlene, Ltd., 20 to 26 Lamb's Conduit Street, London, W.C.1, make in this issue the first announcement of three new preparations for the hair. These are Harlene Hair Fixative (for men) and Harlene Wave-Setting Lotion (for ladies), retailing at 1s. 3d. each, and Cremex Dry Shampoo Powders, selling at 1s. 6d. per box of seven shampoos, or 3d. each. An advertising campaign is being arranged in connection with these lines.

ARALYS LIPSTICK.—Vinolia Co., Ltd., Lever House, Blackfriars, London, E.C.4, have introduced a new lipstick in the Aralys series. It is supplied in a special kind of slide container and in two tints—cerise for blondes and rubis for brunettes. The package is decorated in the pretty Wedgwood blue adopted for the well-known Vinolia series. Apart from the package, the lipstick itself is an excellent product and has been well thought out as regards consistency, texture and perfume. Aralys lipstick retails at 1s.

Westminster Wisdom

Notes on Parliamentary Matters.

WINES FOR MEDICINAL PURPOSES

Major Braithwaite asked the Chancellor of the Exchequer on March 17 whether he will consider, in view of the serious epidemic of influenza, releasing from bond the requirements of responsible druggists of sherry used for medicinal purposes?

Mr. Churchill: I am informed that special consideration is given by the Commissioners of Customs and Excise to applications for the delivery of wine to be used in the manufacture of medicated wines.

DANGEROUS DRUGS REPORT

Mr. Maclean asked the Secretary of State for Foreign Affairs on March 16 whether he is aware that the printing of document O.C. 294 (b) of the League of Nations, dealing with the traffic in dangerous drugs, has been stopped and all existing stocks returned to Geneva; and who issued the orders and what were the reasons?

Sir A. Chamberlain: I have no official information on this subject, but I understand that the publication of this document is merely temporarily postponed pending revision.

OPIUM IN INDIA

Mr. Gardner asked the Under-Secretary of State for India, on March 21, the number of licensed opium shops in India; the area of opium cultivated; and the parts of India in which opium-smoking is prohibited?

Earl Winterton: The number of shops in British India in 1925-26 was 5,844, with the addition of a small number in Delhi, Ajmer-Merwara, Coorg and Baluchistan, which in 1924-25 was 88. The latest figure of poppy cultivation in British India shows 114,198 acres in the year ending October 1925; in addition there was a small area of 1,653 acres in the Punjab Hills. The law in British India prohibits the sale of opium prepared for smoking and also its manufacture except by an individual for his own use from opium lawfully in his possession. Opium smoking in company is illegal in the United Provinces, Punjab and North-West Frontier Province, and consumption of opium in any form is subject in Burma and Assam to registration and individual rationing.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

S/43. Alcina Salt
L/223. Beckenstecker's eye wash (not Pagenstecher's)
S/223. Controla brand lactometers (London agents)
H/223. Hygienol lambswool powder puff
H/233. "Omy" bath salts
H/233. John King's Rheumatic powder
B/223. Dr. Lund's travelling outfit
E/233. Dr. Pearson's L.L. Pills
E/233. Phypolin Liniment
B/223. Raleigh sterilising jug
E/213. Remco rubber nail brushes
S/183. Schener Tea for diabetes

NEW ZEALAND HONEY PROFITS.—The chairman of the New Zealand Honey Control Board is leaving for England in April to investigate marketing conditions there. It was stated at a board meeting (says a Reuter's cable from Wellington) that the English consumer pays 1s. 6d. per lb. for New Zealand honey, the return to the producer averaging 5d.

ILLUSTRATIONS OF MEDICINAL PLANTS.—The sixth series of French coloured plates of indigenous medicinal plants, issued by the Inter-Ministerial Committee for Medicinal and Aromatic Plants, includes pomegranate, buckbean, sage, angelica, meadowsweet, valerian, ground ivy, and hops. The reproductions are excellent, and on the back of each plate a brief description of the plant is given, together with details regarding its occurrence, precautions to be observed in collecting the part used in medicine, therapeutic properties and doses of the drug. This series is obtainable from the Office National des Matières Premières, 12 Avenue du Maine, Paris, price 1.75 francs for the set of eight plates.

Observations and Reflections

By Xrayser III

Good Advice

is what we always expect from the *C. & D.*, and you have added to our indebtedness on this score by the procedure you recommend in cases where we have supplies of goods delivered to us "on approval" or "on sale or return" without our permission having been obtained in the first instance (*C. & D.*, March 19, p. 349). One's first impulse in cases of this kind is to cast out the undesired goods, but the wiser course is obviously to communicate at once with the sender and advise him that they are being held at his risk; or, better still, perhaps, that they are being returned to him forthwith, carriage forward. As you rightly point out, there is no obligation upon us to return goods delivered to us in this fashion, but it has always seemed to me the best course to make up the parcel afresh and get it on the way home without any delay. Anyone who feels indisposed to do this should, nevertheless lose no time in notifying the sender that the goods will not be taken into stock, and must be removed forthwith. I imagine also that we should be entitled to claim rent if the parcel was not removed promptly after such a notice had been sent.

What was the Reason,

I wonder, for the "trap for the unwary," as a magistrate called it, being set recently at Hull (*C. & D.*, March 19, p. 339), where a chemist was prosecuted for supplying a different emulsion of cod-liver oil than was specified in a prescription? Whatever the reason, it is not likely to be disclosed publicly, but it seems fairly clear to me that a good deal can be read between the lines of your report of the case. There was, of course, no justification for the ordinary commercial emulsion being supplied when the prescription definitely indicated that the B.P.C. preparation was required; but the selection of such an article for the test conveys to my mind the impression that there must have been unusual circumstances leading up to the case. The excuse that a 50 per cent. emulsion would not keep well was a poor one, especially as it is always open to the chemist receiving such an order to say that he is unable to execute it without delay, thus giving himself time to make a special batch or send out for it. But the magistrate who heard the case was evidently satisfied that the matter was not very serious, and the chemist was fortunate in the result.

Your Survey

of the recent progress of the Poisons Committee is especially welcome in view of the secrecy with which the proceedings at the inquiry are enshrouded. Somehow you seem to be able to provide us with information which we can obtain from no other source, and that is why, among other things, it pays to pay for the *C. & D.* Judging from your presentation of the facts up to date (*C. & D.*, March 19, p. 348), the pharmaceutical position remains quite sound on the whole, none of the attackers having been able to produce much of an impression. It is strange news, however, to learn that Sir William Glyn-Jones has presented a memorandum which would appear to be decidedly antagonistic to the existing position in pharmacy. This revelation in your pages doubtless accounts for allusions in reports of recent speeches by pharmaceutical councillors at meetings in different parts of the country. Obviously neither the Pharmaceutical Society's Council nor chemists and druggists as a class can be expected to favour the idea of a pharmacy board to control the working of our business. We have yet to learn that it has been possible to find anything seriously amiss with the system that now prevails, and chemists generally will certainly not feel disposed to find the money to enable an outside body to control them.

The Attractiveness

of the chemist's carboy containing the coloured water has been emphasised again and again by the frequent references to it in literature. The suggestion, made in your issue of March 19, that a representation of it in leaded glass should take the place of the carboy itself has much to be said in favour of it. The use of the carboy is not of an ascertainable antiquity. The name of this particular vessel seems to be comparatively modern, if we may altogether rely upon the quotations given in the O.E.D. The first of these is taken from the "Amoenitates Exoticæ" of Kaempfer, published in 1712. In this there is a clear description of our wickered carboy given thus:—"Vasa vitrea . . . ampullacea et circumducto scirpo tunicata quæ vocant karabà"; that is, a blown-up glass vessel enveloped in a covering of rushes which is called karabà. Doubtless we have here the origin of the word of which the equivalent in Persian is *qarabah* or *qarrabah*. At a later date, 1753, there is a reference to this article in English in Jonas Hanway's account of his travels, in which he employs our word when writing of "six karboys of Ispahan wine."

Isaac Newton's

links with pharmacy, as your article intimates, were neither close nor strong; so we must make the most of them as they are. It may be that direction was given to his studies by his residence with the apothecary Mr. Clark, of Grantham, with whom he lived while attending the local grammar school. This seems quite likely, because we are told that after he had been taken from the school, and when living in the neighbourhood with his mother at Woolsthorpe, he was frequently sent with an old servant to the town to make purchases for the household. The glamour of Mr. Clark's books was so compelling that he deserted his trusty attendant, who accomplished the prescribed business, while he surrendered himself to the spell of his friend's library. Newton's interest in chemistry and alchemy was considerable. There is in existence a paper by him—"De Natura Acidorum"—as well as one detailing some experiments to provide a comparative scale of temperatures. Early in his career he collaborated with Dr. Newton, of Grantham, in an effort to find the philosopher's tincture. In his later life he was much attracted by the writings of the mystics.

Anniversaries

serve to sharpen our interest in biographical literature to an astonishing extent. At least that is the case with myself. This remark is prompted by the fact that March 26 is the anniversary of the birthday of one of the greatest naturalists of Europe, namely, Konrad Gesner, who was born in 1516 at Zurich, and who died at the comparatively early age of forty-nine. In his short and busy life he compiled such vast treatises on so great a variety of subjects as to have impelled the great Cuvier to call him "the German Pliny." Gesner was the son of a poor furrier; after many troubles and anxieties he succeeded, when twenty-five years of age, in proceeding doctor of medicine at Basel, and he then settled down to practice physic in his native city, and at the same time devoted himself to the compilation of his great works which have made him universally famous. Mrs. Arber has, in her most excellent work "Herbals," indicated the profound influence he exerted upon botanical science in its early days, especially in respect of the great advance he made in the portrayal of plants and their parts and in the discrimination between "genus" and "species." Readers of works on materia medica are familiar with the name of Gesner, as it appears from time to time in connection with the history of drugs. He also published a pharmacopœia entitled "De Secretis Remediis Thesaurus," which went through many editions in various languages. Some of his works appeared in English translations, namely, "The Newe Jewel of Health" (1576), "The Treasure of Euonymus" (1559), and "The History of Four-Footed Beasts and Serpents," translated by Edward Topsell and familiarly called "Topsell's Natural History."

COMPANIES DISSOLVED.—Notice has been given in "The London Gazette" that the names of the undermentioned companies have been struck off the register and the companies dissolved:—Bloom's (Photographic), Ltd.; Bloom's (Wireless), Ltd.; C. G. Chemicals Syndicate, Ltd.; Griffin Asbestos and Rubber Co., Ltd.; Hunslet Machine and Bottle Mould Co., Ltd.; New Radium Co., Ltd.; Sallyco Mineral Water (1910) Co., Ltd.; Scott's "Bulkhead," Ltd.; Wilzin Automatic Bottle Making Machine Co., Ltd.

Profitable Dispensing

Unlike cod-liver oil, Ostelin is readily dispensed with other medicaments. It is more economical to order Ostelin for dispensing purposes in bulk (*see below*) instead of in the 45-dose phials usually supplied.

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(*Ostelin* ♏ *iv.* = *Ol. Morrhuæ* ʒ *i.*)

Order Ostelin in bulk, in 2, 4, 8, or 16-oz. bottles, at 5/- net per fluid ounce, from :—

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AROMATICS & SYNTHETICS

Essential Oils

AND

TERPENELESS & SESQUITERPENELESS OILS

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A. BOAKE, ROBERTS & Co., Ld.

STRATFORD——LONDON——E.15

Telegrams : "Boake, Phone, London."
Telephone : Maryland 1050 (6 *lines*)

University Boat Race

Saturday, April 2nd, 1927.

JULES LANG & SON

Charlton Works, Charlton Place, Islington, London, N.1, extend a cordial welcome to their customers to witness the race from their Albert Wharf, Oil Mill Lane, King Street, Hammersmith, W.6, and will afterwards be conveyed by motor launch to "Kent House," The Mall (adjoining Hammersmith Bridge), where refreshments will be provided and dancing indulged in until 5.30 p.m. The Dance Hall is only about 5 minutes voyage down the river. Applications for tickets of admission, which are strictly limited and personal, should be sent to the above address.

'Phone: Clerkenwell 8770 (3 lines). 'Grams: "Assorted, Phone, London."

Issued in tubes of 24 tablets, retail 3/6. Order from Wholesaler or from

UPSHER SMITH DIGITALIS CAT UNIT TABLETS

MATTHEWS LABORATORIES, LTD., CLIFTON, BRISTOL, ENG.
Agents for the British Empire.

Peptogenic Milk Powder

FOR PREPARING HUMANISED MILK FOR INFANT FEEDING.

Supplied in two sizes.

Originated and Manufactured by

FAIRCHILD BROS. & FOSTER, New York

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IS OWNED BY

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CASTLE STREET, BIRMINGHAM,
WHO INVITE APPLICATIONS FOR TERMS.

EXTRA RECTIFIED **ALCOHOL** FOR **TINCTURES**

J. BURROUGH Ltd. 1 Cale Distillery, LAMBETH, S.E.11

Government-Directed Research

THE Department for Scientific and Industrial Research, which was founded in the early days of the war, has issued its report for the year 1925-26. Much of the work being carried on is a continuation of researches

initiated some years ago. These include fuel research, food investigation and forest products. A new chemical research laboratory has been completed during the year, and should form a solution of the difficulty that has been experienced of finding suitable accommodation for the purpose. Among the chemical subjects dealt with are the constituents of low-temperature tars, which are characterised by their high content of phenolic substances, and may be found to be efficient germicides with new properties. Salts of cadmium with various organic acids and co-ordination compounds of the metal have been studied in relation to their germicidal properties. Organic synthesis under high pressure is another subject, and a small plant is being worked in connection with the reactions between carbon monoxide and hydrogen in the presence of catalysts and promoters. The protection of aluminium from oxidation, improvements in the manufacture of accumulators, the manufacture of alcohol from artichokes, and an investigation of the hydrocarbons from fish-liver oils are some of the other problems in hand. In connection with the various researches five patent applications have been made. These include radio telegraphic direction finders, cathode ray repeaters, synthetic resins, substitutes for dental rubber, and means for applying plaster to walls. The research for dental rubber substitutes have been made at Guy's Hospital, and dentures made from the material as produced on a laboratory scale have now been on trial under actual conditions of wear for periods ranging up to a year, and have emerged successfully from these tests. The dentures appear to be satisfactory as regards strength and their appearance and colour can be considered excellent; while, so far as the trials carried out show, they withstand quite well the conditions of the mouth. The material probably requires more delicate control in the hands of the dental mechanic than dental rubber, but if its present promise is fulfilled it should represent quite a definite advance in dental prosthetics. It is hoped shortly to make the material available for use in dental practice. Another research deals with silver-tin amalgams and the ageing phenomenon. We note also an investigation for the production of a suitable and safe solvent for lanolin for use as a rust preventive for the bright parts of machinery. Methods of absolute measurement of sound intensity and colour standardisation are among the subjects occupying the physics section.

The Glut in Peppermint Oils

AFTER two years of an acute shortage in American peppermint oil, during which first-hand prices in 1925 rose to the unprecedentedly high level of 125s. per lb. in London, there is every indication that 1927 will be a year of bountiful supplies. Some weeks ago (p. 296) we gave the official figures issued by the U.S. Department of Agriculture relating to the 1926 crop, namely, 753,000 lb., the largest on record. This, it should be noted, included the estimated contribution from the new growing districts of Oregon and Washington, where 2,500 acres are reported to have been under peppermint cultivation last year. If the annual American consumption continues around 400,000 lb., which is the usual estimate, it is obvious that there is nearly two years' supply. The primary cause of this phenomenal yield was, of course, the high prices obtained, to which must be added favourable weather conditions. Previous to the great increase an average value of American peppermint oil was considered to be about $2.50 per lb. (= 10s., approx.). In view of the events of the last three years, it would appear that this is too low a level, the truth of which, however, will probably be tested this year. The following gives a comparison of the approximate London spot values during the years 1924, 1925 and 1926:—

—	1924				1925				1926			
per lb.	Highest		Lowest		Highest		Lowest		Highest		Lowest	
	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
January ,,	16	0	15	6	44	6	42	0	125	0	110	0
February ,,	15	9	15	6	65	0	45	0	110	0	100	0
March ,,	18	0	15	9	64	0	62	6	97	6	72	6
April ,,	23	0	19	0	64	0	60	0	77	6	70	0
May ,,	22	6	21	0	62	0	57	6	65	0	60	0
June ,,	22	0	20	0	72	6	62	6	62	6	60	0
July ,,	19	6	19	0	80	0	82	6	60	0	57	6
August ,,	21	0	19	0	75	0	72	6	57	6	50	0
September,,	20	0	27	6	72	6	70	0	55	0	42	6
October ,,	28	6	27	0	72	6	70	0	42	6	30	0
November,,	34	0	30	0	105	0	72	6	27	6	25	0
December ,,	45	0	40	0	125	0	105	0	22	6	21	0

During the first year of the crop shortage (1924-1925) it was understood that growers were not fortunate enough to share to any extent in the high profits eventually obtained. In the year that followed, however, financial aid for the growers was forthcoming from interested circles, and the only flaw in the arrangements seemed to be that the crop turned out practically a failure, from causes beyond control—only about 180,000 lb. of oil being the estimated yield. The result was that keen competition for supplies resulted in unheard-of values, far beyond the economic value of the oil, at the same time dealing a very severe blow to the regular trade from which there has been by no means a complete recovery. Consumers were forced to substitutes not only in America, but in this country and elsewhere, and, having changed their formulas, manufacturers are not so easily persuaded to return to so highly speculative a product as American peppermint oil. Early last year it was reported that a syndicate had taken up a considerable portion of the oil in order to maintain the price, but the weight of the crop this year was too much for any bolstering up of the position, and sooner or later the value is expected to reach its true level. The crux of the problem for next year will be reached by the month of May, when weather conditions usually decide for or against a favourable crop. But, as we have shown, only a very complete failure of the next crop can outweigh the huge 1926 yield While there are no official figures relating to the 1926 yield of Japanese dementholised peppermint oil, it was originally estimated that the crop of crude peppermint oil would reach the enormous total of 2,500,000 lb. Later estimates were placed on a lower level, with the Sambi crop at 628,600 lb. and the Hokkaido crop at 950,000 lb., or a total of 1,578,600 lb. This, however, is still above the 1925 crop, which yielded 1,573,000 lb., and nearly double that of 1924. As the peppermint farmers have been obtaining good prices for the crude oil, it is expected that quite as large an acreage will be planted this year. Given favourable weather conditions, the 1927 crop may be considerably larger than either the 1926 or 1925 crop. Since we last commented on Japanese dementholised peppermint oil (*C. & D.*, I, 1926, p. 196), "paper" transactions have continued practically to rule the market, which has declined in the period from 12s. to 8s. It may be mentioned in this connection that some weeks ago there were buyers of the January-March position at about 8s. 3d. per lb. c.i.f., while on the spot there were sellers at 7s. 9d. While there are some thousands of cases in stock in London, these were bought at much above present values. With regard to the Italo-Mitcham (Piedmont) peppermint oil, we understand that a very large acreage was laid down as a result of the high prices obtained during the scarcity of American oil. The slump in so-called "Wayne County" has since dealt a very serious blow to the young Italian industry, which has been left with large and unsaleable stocks except at heavy loss. In this connection it is significant that at

a meeting of the Council of the Italian Association of Producers of Aromatic Materials, held on February 25, it was decided to take steps to convince the distillers of peppermint oil of the necessity of lowering their prices to the level of American quotations. It appears that the distillers have been asking about 400 lire a kilo for natural oil, whereas a normal price should be about 200 lire. During the last two years many strange peppermint oils have been submitted to consumers, and while over-production is not commendable, the immediate result will be of benefit in driving such concoctions off the market. It may be admitted that American natural peppermint oil maintains in normal circumstances an undisputed position both as regards flavour and price. Other oils (with the exception of English peppermint oil) are admittedly only substitutes, and if the decline proceeds, as it probably will, to an economic level, we may get back again sooner or later to a real peppermint flavour.

The Purity of Ether

SOME years ago Dr. F. J. Waldo took up the question of fatalities due to chloroform anæsthesia, and as a result of his persistence in calling attention to the frequency of these deaths a great improvement has resulted due to greater care in administration. Now Dr. Waldo is directing attention to the fatalities due to the administration of ether, which is regarded as a much safer anæsthetic than chloroform. This campaign is interesting in view of the work that has been done on this subject of late years by the research department of The British Drug Houses, Ltd. It will be recalled that at the British Pharmaceutical Conference in 1924 attention was called to a method of detecting peroxides in ether. The opinion is expressed that the toxicity of ether results from its oxidation, and that the presence of aldehyde in amounts too small to be detected by the official test increases the tendency to oxidation. Owing to the difficulty of removing the impurities by distillation a chemical method of purification is employed, and it is this variety of ether which should give the best results in anæsthesia.

Medical and Dental Registers

THE Medical Register for the year 1927 has just been issued (21s., Constable & Co., Ltd., 10 Orange Street, London, W.C.2) by the General Medical Council. The number of names tabulated is 52,614, an increase of 876 on the number at the end of 1925, and of 2,814 on the average of the last five years. Registrations during the past year number 2,120; this figure is 450 less than that of the previous year, and 268 less than the past five years' average. The names of 1,159 medical men have disappeared from the Register during 1926—201 more than the average for the past twenty years. The customary legal, statistical and other information is included in the volume. The Dentists Register for 1926, also issued by the General Medical Council (12s., Constable & Co., Ltd.), contains 14,395 names (14,199 in the previous year). During the past twelve months 380 persons have been registered with qualifications, and 43 under the Dentists Act, 1921; three Colonial names have also been added. The number of names removed is 558; of these, 430 were deleted under Section 7 of the Dentists Act, 1921. The percentage of United Kingdom graduates and licentiates in dental surgery on the present Register is 42.61; of persons (other than medical men or dental surgeons) in dental practice prior to the Act of 1878, 4.69; and of persons registered without additional qualifications under the Dentists Act, 1921, 50.36. The Local List at the end of the volume gives under town headings the names of the dentists practising in each place; and an inset supplies names of corporate bodies carrying on dentistry and of directors of such bodies. The Medical and Dental Students Register, published (7s. 6d.) under the same auspices, shows that during the past year 1,260 medical students and 229 dental students were registered, compared with 1,070 and 191 respectively in 1925.

New Books

Grieve, M., and Oswald, E.—*Fragrant Flowers; Perfumery in Ancient and Modern Times, being Part I of Plants of Sweet Scent and their Employment in Perfumery.* 7¼ in. by 4¾ in. Pp. 66. 2s. Mrs. Grieve, Whins' Cottage, Chalfont St. Peter, Bucks. [An interesting booklet dealing with the origin and history of vegetable and animal perfumes, with a survey of the plants yielding perfumes.]

Emery, G. F., *Executors and Administrators, their Functions and Liabilities, or How to Prove a Will,* 4th Ed. 7⅜ in. by 4⅝ in. Pp. 180. 3s. E. Wilson, 16 Copthall Avenue, London, E.C.2. [The new edition brings the work into line with the recent important changes in the law relating to intestacy. The method adopted of passing property by will makes much difference in the ease with which a will is proved and in the expense incurred.]

Proceedings of the Optical Convention. 12 in. by 9 in. Part I, pp. 512; Part II, pp. 578. £3. The Optical Convention, 1926, 1 Lowther Gardens, London, S.W.7. [The full account of the scientific work is given in the Proceedings. These two illustrated volumes contain the full text of the presidential address and of the papers, numbering nearly one hundred, read at the Convention; with a report of the discussions and of certain special lectures which were given. The publication constitutes a notable record of progress in optical science and instrumental design since the previous Optical Convention in 1912. It contains many papers of great importance on the manufacture of optical glass and optical elements, the design of optical instruments of all classes, on colour, photometry and illumination, ophthalmology, astronomy, photography, cinematography, and other optical subjects.]

Ferchl, F.—*Illustrierter Apotheker-Kalender,* 1927, 9½ in. by 6¼ in. Deutscher Apotheker-Verein, 16B Levetzowstrasse, Berlin, N.W.87. [This illustrated calendar for pharmacists now makes its appearance for the third time, and worthily completes its two predecessors. The lower portion of each page, which can be torn off, has a space for notes, one to four days being allotted to each page, while the remainder of the space is occupied by an illustration of pharmaceutical interest. It would be invidious to make a selection, since each of the many excellent reproductions contained in this collection claims attention, whether they be photographs of pharmacy jars—some of which appeared in THE CHEMIST AND DRUGGIST Annual Special Issue, 1925 — portraits, old utensils, views of historic pharmacies, documents, paintings, including some depicting the Saviour as a pharmacist, or other objects associated with our calling.]

Valenti, A., Cortesi, F., and Carlinfanti, E.—*Codice delle Piante Medicinali.* 10 in. by 7 in. Pp. 101. 15s. Federazione Pro Montibus, 115 Piazza Montecitorio, Rome. [Since the war steps have been taken in Italy to promote not only the cultivation of indigenous medicinal plants, but also to acclimatise many aromatic and other useful plants, since it is recognised that these important raw materials represent a not inconsiderable source of wealth. Foremost among the organisations which pursue this object is the Federazione Pro Montibus, which has now published a handsome volume devoted to a description of indigenous official medicinal plants, illustrated by thirty-two well-executed colour plates. The explanatory matter contains a list of the Italian local names under which each plant is known, followed by descriptive notes regarding its occurrence, characters, parts used in medicine, cultivation, collection, commerce, chemical constituents, tests, adulterations, and official preparations. Appended are eight plates with twenty-six figures of drugs. The thirty-two Italian medicinal plants described and illustrated in colours include: Aconite, adonis, marshmallow, anise, arnica, wormwood, belladonna, calamus, chamomile, squill, colchicum, convallaria, digitalis, sweet balm, male fern, gentian, juniper, hyoscyamus, cherry laurel, lycopodium, liquorice, pomegranate, castor-oil plant, elder, ergot, mustard, stramonium, lime, bearberry, valerian, violet, and saffron. The distinguished authors, professors of pharmacology, botany, and chemistry, are to be congratulated on the care taken in the production of this work.]

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, March 24.

THERE is no improvement to record in business conditions in Mincing Lane, and little of importance has transpired. Interest has centred in the drug auctions this week, and privately easier prices are recorded for ergot for shipment; male fern extract is still scarce and practically unobtainable. Curaçao aloes in cases is higher in U.S.A.; ipecacuanha is still very firm; gamboge and myrrh are scarce. Coriander seed is higher. In essential oils, principal interest is centred in lemon, which is again higher; bergamot and orange are also tending firmer; new arrivals of cananga are cheaper, and Bourbon vetivert has declined. Peppermint oils are dull, and Japanese dementholised is easier. Among the pharmaceutical chemicals business continues steady. Citric and tartaric acids are firmer on the Continent. Phenazone and phenacetin continue steady; bromides meet with a fair demand for small lots. Among industrial chemicals business continues of fair volume, the principal change being a sharp advance in cream of tartar; oxalic acid has been in active demand, and potassium chlorate is rather cheaper to come forward; sal ammoniac has been in better request. In the coal tar products pitch and toluol are cheaper. Among the fixed oils business has been quiet throughout, with a number of items showing a further slight decline. Castor is very steady but quiet; coconut and cotton, palm, rape and wood oils are easier; olive is dearer.

Higher	Firmer	Easier	Lower
Cassia fistula Coriander seed (Morocco and Russ.) Cream of tartar Lemon oil Male fern ext. Olive oil	Bergamot oil Citric acid Cocoa butter Fenugreek seed Orange oil Tartaric acid	Buchu Citronella oil (Jv.) Coconut oil Ergot (c.i.f.) Linseed oil Palm oil Peppermint oil Potash chlorate Rape oil Senega Sodium acetate Wood oil	Benzols Cananga oil Cotton oil Glucose Honey Orange peel Pitch Scammony resin Toluol Vetivert oil
	Steadier		
	Thymol		

Cablegrams

NEW YORK, March 23.—Business is fair. Copaiba is higher at 52½c. per lb. Mercury has advanced to $115 per flask, and mercurial salts are also dearer, including corrosive sublimate at $1.43, and precipitate at $1.90, and white precipitate $1.98 per lb. Taraxacum has declined to 14½c. per lb., and stillingia to 28c. per lb.

BERGEN, March 23.—The catch of cod since the opening of the season amounts to 29,100,000, against 20,800,000 at the corresponding period of last year, and the yield of steam-refined non-freezing oil is 35,105 hectolitres, against 33,718 last year. The quotations for finest steam-refined non-freezing Lofoten oil are from 118s. to 120s. per barrel, c.i.f. London.

Crude Drugs, etc.

ALOES.—Privately, importers quote the higher price of 62s. per cwt. c.i.f. for t.q., and a fair amount of business has been done; on the spot, fine chocolate liver is quoted at 75s. per cwt.; common coarse grades are scarce on spot, most of the offerings being part turning livery.

ANTIMONY is dull, but prices are slightly firmer on the basis of about £54 for Chinese regulus on the spot. The demand is somewhat better, and holders rather more reserved. On the other hand, still relatively cheap terms are quoted for shipment from China down to about £46 10s. c.i.f.

CAMPHOR (REFINED).—Japanese slabs are quoted at 2s. 7d. per lb. on the spot, and ¼-oz. tablets at 3s. 3d.

CASSIA FISTULA was not offered in auction, and all the cheap parcels appear to have been disposed of. Fair East Indian pod is now 35s.

CLOVES continue quiet and easy, Zanzibar offering at from 8½d. to 8⅝d. per lb. on the spot as to quality. Afloat and March-May shipment is offered at 7¾d. per lb. c.i.f., and April-June shipment at 8d. c.i.f. The landings in London during the week ended March 19 were 120, and the deliveries 167, leaving a stock of 8,889 bales, against 18,678 bales in 1926, and 10,973 bales in 1925. Up to March 19 the landings of Zanzibar in London have been 5,573, against 7,770 in 1926, while the deliveries amount to 4,287, against 3,292 last year.

COCOA BUTTER.—Prime English C.F.R. is now 2s. per lb., and other makes 1s. 11d.

COD LIVER OIL.—Sales continue limited, buyers holding off in view of the further developing of the Lofoten fishing. Finest new 1927 non-freezing steam-refined quality is quoted at about 120s. per barrel, c.i.f. London.

BERGEN, March 21.—The cod fisheries at Lofoten continue very favourable, although lately they have been more dispersed. The total output of all the Norwegian cod fisheries, compared with that of the previous years, is as follows:—

	To	Catch of cod	Yield of steam-refined cod-liver oil	Livers for crude oils
Mar.	12, 1927 ..	21,400,000	26.576 hectol.	1,527 hectol.
„	13, 1926 ..	13,024,000	22,290 „	3,417 „
„	14, 1925 ..	16,272,000	31,678 „	4,687 „
„	15, 1924 ..	12,885,000	29,078 „	4,794 „
„	10, 1923 ..	14,517,000	29,010 „	4,856 „

ERGOT is on the easier side, particularly for forward shipment, Russian or Polish offering at slightly under 3s. c.i.f.

GLUCOSE is 6d. per cwt. lower, guaranteed water white, for prompt to end of June, offering at 22s. 3d. per cwt., ex store, London.

MALE FERN EXT.—Spot supplies are practically exhausted, and it is difficult also to get offers from the Continent; anything obtainable would be fully worth 5s. 6d. per lb.

MENTHOL remains slow of sale, although unchanged at from 17s. 6d. to 17s. 9d. per lb. for five- to one-case lots of Kobayashi-Suzuki on the spot. To arrive, January-March shipment is quoted at 17s. 1½d. per lb. c.i.f., and April-May at 17s. c.i.f.

MERCURY.—Under a constant trade demand and not a great deal offering on the spot the market in the latter part of last week soared to new high records, as much as £22 having been paid in one quarter for small spot lots, less the usual discount. The market since has been erratic, and so far as can be gathered business is chiefly a matter of negotiation. The American market is very strong, the price realised there lately having touched $113.50 per bottle. It is difficult to get any reliable quotations, but these may be called about £20 15s. to £21 5s. for spot lots. Recently a steamer was lost with about 700 bottles of quicksilver from Italy and Spain bound for New York. This does not amount to a great deal, but the market is now faced with a serious shortage chiefly owing to the big American demand, and its course is rather problematical.

MYRRH.—Privately, myrrh is scarce, and sellers ask £5 to £5 10s. per cwt. for Aden sorts; good Somali is also scarce at about 85s., and grains offer at 72s. 6d. per cwt.

OPIUM is unchanged, with usual Turkey druggists' offering at 2s. per unit on the spot.

CONSTANTINOPLE, March 15.—"During the past fortnight arrivals included: Druggists', 2,245; 'softs,' 173; and Malatia, 343 cases. Stocks amounted to: Druggists', 603; 'softs,' 104; and Malatia, 309 cases. During this period 72 cases druggists' were sold at £T27½-30, and 26 cases Malatia at £T27½. The market is quiet and buyers are holding back. Holders of stocks are still in expectation of higher quotations, which do not materialise. All hopes are centred in the formation of the Amsterdam group, but this combination fails to excite those who are acquainted with both parties. The weather is fine and spring sowings have already begun."

PAPAIN.—An arrival of 37 cases has taken place from Ceylon per "Newby Hall."

RUBBER has kept remarkably firm since our last report, and a good trade has been passing. Although the advance in price was only slight, and has gone slightly easier at the close to-day, the general tone throughout is particularly steady. America continues to buy from this market for the spring trade, and there has also been a fair amount of buying direct from Singapore. In spite of the fairly heavy shipments last week stocks were decreased by 216 tons, and the London stock now stands at 61,300 tons. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and March, 1s. 8¼d.; April-June, 1s. 8½d.; July-September, 1s. 9⅛d.; October-December, 1s. 9⅝d. per lb.

SEEDS.—The market is still very depressed and no interest is shown. There is no actual demand, but prices keep fairly firm as follows:—ANISE: Spanish is 49s. and Russian 30s. CANARY SEED meets with practically no demand; Mazagan is 17s. 3d. on the spot and 16s. 9d. for forward shipment; good bold Spanish is 28s. and small 22s. CUMIN

SEED is unchanged: Maltese is 32s. 6d. spot, and Morocco 29s. per cwt. CORIANDER SEED is still very scarce and firm at 40s. per cwt. on the spot for Morocco. Russian is quoted at 32s. 6d. per cwt. on the spot. FENUGREEK SEED: Morocco is scarce: 16s. 3d. per cwt. is quoted for forward shipment. DILL SEED is 22s. HEMPSEED: Manchurian is 15s. to 16s. per cwt. on the spot. LINSEED: Mazagan is 20s. 6d. on the spot. MUSTARD SEED: English is 30s. to 31s. 6d. per cwt.

SENEGA is easier, spot offering at from 3s. 5d. to 3s. 6d. per lb., and slightly less for quantity.

SHELLAC is about steady, usual standard TN orange offering at 172s. 6d. per cwt.; fine orange is 190s. to 300s.; pure button, 210s. to 220s.; and AC cakey, 180s. to 187s. 6d. Sales to arrive include TN for March-April shipment at 164s. 6d. to 163s. 6d., and April-May at 164s. c.i.f. For delivery, sales comprise May at 173s. to 169s., and August 176s. to 173s. per cwt. Calcutta is rs. 80.

Essential Oils

THE general demand is moderate and price changes are unimportant. Lemon oil is dearer, and spot sales have been made at advancing rates. Bergamot and orange oils are higher. Japanese peppermint is quiet and easier. Java is lower, and Bourbon vetivert is also cheaper. Java citronella is slightly easier.

ANISE (STAR).—"Red Ship" on the spot is quiet and unchanged at 2s. 9d. per lb. and 2s. 4d. c.i.f. in leads.

BERGAMOT is firmer at 27s. to 27s. 6d. per lb. c.i.f. to arrive for 37 to 38 l.a. On the spot probably 27s. 6d. to 28s. would have to be paid for good brands.

CANANGA.—Lower quotations are made for new arrivals in course of landing, Java being obtainable at about 20s. per lb. for good quality. For shipment about 17s. 6d. c.i.f. to arrive is quoted.

CASSIA.—Spot is unchanged at 7s. per lb. for 80 to 85 c.a. Sales for forward shipment have been reported at 6s. 2d. c.i.f. to arrive.

CITRONELLA.—Ceylon on the spot is unchanged at 1s. 4½d. per lb., and for shipment 1s. 3½d. c.i.f. to arrive. Java oil is unchanged at 1s. 10d., and for shipment at 1s. 9½d. c.i.f., which is a shade easier.

CLOVE.—Some of the English distillers can only accept small business for some weeks, being fully engaged on contracts for manufacturers. The demand in this direction, which has been active recently is quieter. The current quotations for 90 to 92 per cent. eugenol is 5s. 3d. per lb. in large drums. B.P. oil in druggists' quantities is steady at 5s. 6d. to 6s.

EUCALYPTUS is steady at from 1s. 8½d. to 1s. 9d. per lb. on the spot for 70 to 75 cineol.

GERANIUM.—Rather more demand has been noted in Bourbon oil, which is quoted at 11s. per lb. on the spot. In some directions this would be shaded for small lots. For shipment, 10s. 6d. to 10s. 9d. c.i.f. is mentioned. Algerian is quiet, and 11s. is about the value.

JUNIPER BERRY.—B.P. oil is quoted on the spot at 9s. per lb., which might be shaded for quantity.

LAVENDER.—Lower offers from the source continue to come forward, but dealers are finding that some of the cheap quotations are for rather inferior quality. On the spot the current value for primo quality 38 to 40 per cent. is around 38s. 6d. per lb.

LEMON.—Current quotations from Sicily appear to indicate a firmer tendency, 9s. 2d. to 9s. 3d. per lb. c.i.f. being the general range. On the spot, only small lots are obtainable at 9s. 3d. In some directions fair sales are reported up to 9s. 6d. and 9s. 7½d., and 9s. 6d. to 9s. 9d. now represents the probable value. A fairly active demand has been noted in Californian distilled oil, which finds ready buyers at 5s. 3d., ex wharf, in large drums. Tins and cases are 5s. 6d.

LEMONGRASS.—Cochin is unchanged at 3s. 6d. to 3s. 6½d. per lb. on the spot, and for shipment 3s. 4½d. c.i.f.

ORANGE.—Sicilian sweet is firmer at from 9s. 5d. to 9s. 9d. per lb. c.i.f. to arrive. On the spot, 9s. 9d. to 10s. is quoted. West Indian sweet has also advanced, and for fine quality oil probably 9s. would have to be paid. Bitter is quoted at 9s., ex warehouse.

PATCHOULI.—Penang oil, usual quality, is obtainable at from 37s. to 38s. per lb. on the spot. Parcels now afloat are offered at cheaper rates.

PEPPERMINT.—Japanese dementholised on the spot is quoted at 7s. 7½d. to 7s. 9d. per lb. for Kobayashi-Suzuki. Sales of January-March shipment have been made at 7s. 7½d. c.i.f., with buyers at 7s. 6d., and sellers at 7s. 7½d. Quite a number of arbitrations are taking place over January-March shipments. American natural tin oil is unchanged at from 18s. to 18s. 6d. on the spot, and 17s. 6d. c.i.f. to arrive.

ROSEWOOD (BOIS DE ROSE).—Demand is slow, and spot values are unchanged at from 9s. 6d. to 10s. per lb., as to quantity.

VETIVERT.—Bourbon has declined on the spot, holders quoting 32s. 6d. per lb., which would probably be shaded for quantity.

YLANG-YLANG.—A good demand has been noted in Bourbon, and some dealers have cleared their spot stocks. Value is about 2s. 6d. to 4s. 6d. per oz., according to quality.

The following arrivals have taken place from the countries indicated during the period March 10 to 16 inclusive:—Anise, star (Ch.) 15 cs., (Jp.) 25 cs., (Fr.) 17 cs.; bergamot (It.), 16 cs.; camphor (Jp.), 16 dm.; cassia (Ch.), 10 cs.; citronella (Jv.) 5 dm., (Switz.) 2 cs.; coriander (Fr.), 3 cs.; cubeb and dill (Holl.), 1 cs.; dill (Ger.), 1 cs.; eucalyptus (Sp.), 20 cs., 3 dm.; gingergrass (Br. Ind.), 5 pots; jasmin (Ger.) 1 cs.; lavender (Fr.), 1 cs.; lemon (It.) 212 cs., (Ger.) 2 dm., (Fr.) 2 cs.; lime (Ger.), 1 dm.; orange (It.), 27 cs.; orris (Fr.), 10cs.; palmarosa (Br. Ind.), 6 pots; patchouli (Straits) 3 cs., (U.S.) 2 cs.; peppermint (Jp.) 40 cs., (U.S.) 2 cs.; petitgrain (Parag.), 3 cs.; sandalwood (Aust.), 16 cs.; spike (Fr.), 1 dm.; undescribed (Holl.) 2 cs., (U.S.) 28 cs., (Fr.) 29 cs.

The following arrivals have taken place from the countries named during the period March 17 to 22 (inclusive):—anise, star (Ch.), 15 pkg.; bergamot (It.), 31 cs.; camphor (Ch.), 5 dm.; cananga (Jv.), 5 dm.; cassia (Ch.), 25 cs., 5 dm.; cedar leaf (U.S.), 1 dm.; cinnamon (Cey.), 1 dm.; citronella (Guat.) 11 dm., (Jv.) 9 dm., (Cey.) 12 dm.; lemon (It.) 106 cs., (U.S.) 30 dm.; mandarin (It.), 11 cs., 1 x ½ cs.; marjoram (Sp.), 2 dm.; orange (It.), 8 cs.; patchouli (Straits), 10 cs.; pennyroyal (Sp.), 2 dm.; peppermint (U.S.) 12 cs., 3 dm., (It.) 35 cs., (Jp.) 10 cs.; pine (Ger.), 1 cs.; sage (Sp.), 2 dm. Undescribed: (U.S.) 10 cs., (Fr.) 13 cs.

Pharmaceutical Chemicals, etc.

ONE or two products show a slight change in spot quotations but the market generally is very steady, and business has been on satisfactory lines. Citric and tartaric acids continue to advance on the Continent.

ACETANILIDE continues steady on a rather quiet market, with quotations for B.P. powder and crystals at 1s. 6½d. to 1s. 6½d. per lb. as to quantity.

AMIDOPYRIN is unchanged, with a fair business on spot at about 8s. 6d. to 8s. 9d. per lb.

ASPIRIN.—Brisk business continues, with prices well maintained at 2s. 5d. to 2s. 5½d. per lb., and ½d. more for special makes.

BARBITONE is offering in quantities at about 6s. 4d. per lb., and has been unsteady.

BENZALDEHYDE (0.03) is quiet, with dealers quoting at about 1s. 9d. for quantities in demijohns.

BENZOIC ACID (B.P.).—A fair business is recorded, with British at 2s. 3d. to 2s. 4d. per lb., ex works. Continental, p.f.f.c., 3s. 6d. per lb., spot.

BENZONAPHTHOL remains slack at about 3s. 3d. per lb., for small lots.

BROMIDES.—A fair business in small quantities is reported with the market steady at unchanged rates: ammonium, 2s. 1½d.; potassium, B.P. crystals and granular, 1s. 9d.; sodium, B.P., 1s. 11d. per lb.

CALCIUM LACTATE is meeting with fair business as quoted at 1s. 2d. to 1s. 3d. per lb. for quantities to come forward.

CHLORAL HYDRATE.—In last week's issue quotations for duty-paid crystals should have read 3s. 2d. to 3s. 2¼d. per lb., and not as printed.

CITRIC ACID (B.P. crystals).—There is again a firmer tone on the Continent, with July shipment quoted firm at 1s. 4¾d. per lb., less 5 per cent. Spot would now be difficult to pick up at much under 1s. 4½d. to 1s. 5d. per lb., less 5 per cent. for foreign.

CREOSOTE (B.P.) remains steady as quoted by dealers at 1s 9d. per lb. for small quantities in demijohns.

CREOSOTE CARBONATE is not of much interest; dealers quote at about 6s. to 6s. 3d. per lb.

GUAIACOL CARBONATE has been moving well, with prices ranging from 5s. to 5s. 4d. per lb. as to quantity.

HEXAMINE is unchanged, with not very much business about: quoted from 2s. 4d. to 2s. 5½d. per lb. as to quantity and grade.

HYDROQUINONE remains very slack on spot; quoted at about 3s. 10½d. per lb.

LACTIC ACID.—Dealers' prices continue unchanged as follows: One-ton lots, 2s. 4½d.; ten-cwt. lots, 2s. 5d.; 2 to 3-cwt. lots, 2s. 6d.; under 2 cwt., 2s 6½d. per lb., ex wharf, duty paid. Technical, 50 per cent. by weight, £42 per ton.

MERCURIALS.—As notified last week, makers of mercurials advanced their prices by 6d. per lb. Calomel is 5s. 11d. per lb.; corrosive sublimate, 5s. 4d.; white precipitate, 5s. 6d.; red oxide cryst., 7s. 1d. per lb.; two-cwt. lots 2d. per lb. less.

METHYL SALICYLATE continues steady but rather quiet; quoted from 1s. 6d. to 1s. 6½d. per lb. as to quantity.

METHYL SULPHONAL is steady at about 10s. 9d. to 11s. per lb., with more business about.

MILK SUGAR.—At this time of the year the market usually weakens a little; business is quiet. Sales have been at about 58s. to 60s. per cwt., in cases.

PARAFORMALDEHYDE (100 per cent. powder) remains quiet, with the quoted price about 1s. 9d. per lb., in kegs.

PARALDEHYDE shows no change at 1s. 1¼d. to 1s. 2¾d. per lb. as to quantity and packing; market quiet.

PHENACETIN.—A steady business continues, with ordinary-sized quantities selling at about 3s. per lb.

PHENAZONE shows no change, with business moderate; quoted from 4s. 6d. per lb. for quantities.

PHENOLPHTHALEIN has settled down to controlled rates of 6s. 1½d. to 6s. 2d. per lb.

PIPERAZINE remains quiet, with dealers offering from 2s. per oz. in bottles.

POTASSIUM PERMANGANATE is slack, with keen prices in the region of 6d. per lb., in drums, quoted.

POTASSIUM SULPHOGUAIACOLATE remains unsteady at about 5s. per lb.

RESORCIN is a steady and moderately active market; fair quantities selling at about 4s. 3d. per lb.

SALICYLIC ACID (B.P.) shows no change, with business quiet; quoted from 1s. 4d. to 1s. 4½d. per lb., as to quantity.

SALOL.—The new rates mentioned last week continue in force; small lots, 2s. 3¾d.; one cwt., 2s. 3½d.; about 1½d. per lb. more for powder.

SODIUM BENZOATE (B.P.) has been moderately active at unchanged rates of about 1s. 8d. per lb. for quantities.

SODIUM DIETHYLBARBITURATE remains slack, with dealers quoting at about 9s. to 9s. 4d. per lb.

SODIUM SALICYLATE (B.P.) has been rather dull, but prices quoted are unchanged; crystals, 1s. 10d.; powder, 1s. 9¼d. to 1s. 9½d. per lb.

SULPHONAL has been in quite good demand, with sales made at 7s. 6d. per lb.

TANNIC ACID.—B.P. *leviss* is steady as quoted from 2s. 8d. to 2s. 10d. per lb., as to quantity.

TARTAR EMETIC is quoted by dealers at 2s. per lb. for B.P.

TARTARIC ACID (B.P. crystals).—Forward quotations from the Continent make the selling prices here up to 1s. 2d. to 1s. 2½d. per lb., less 5 per cent. There might be some foreign available on the spot at about 1s. 2d. per lb.

TERPIN HYDRATE is very slack: quoted from 1s. 5d. to 1s. 8d. per lb.

THYMOL is steadier but decidedly quiet: quoted from 11s. 3d. to 11s. 9d. per lb. for B.P. fine white, according to quantity.

VANILLIN (100 per cent. from cloves) is steady but dull: quoted from 17s. 6d. to 18s. per lb., and slightly less for large business.

Among the chemicals which have paid key industry duty during the period March 10 to 14 inclusive, are the following:—Acetic acid, £867; calcium glycerophosphate, £291; nitroxyphenylarsenic acid, £299; potassium guaiacol sulphonate, £345; potassium permanganate, £172; undescribed chemicals, £754.

Industrial Chemicals, etc.

London, March 23.

THERE has been a sharp advance in prices quoted for cream of tartar. Other products show little change on the week, and with business on a fair scale the position continues quite steady.

ACETIC ACID shows no change, with a fair volume of business passing: 80 per cent. technical and 80 per cent. pure, £37; 99 to 100 per cent. glacial, pharmaceutical, £66 per ton, in glass demijohns; glacial, in barrels, £56, ex wharf.

ACETONE is steady but quiet: B.G.S., in drums, £58 per ton, ex store.

ALUM is steady but quiet: spot lump offered at £8 15s., in casks; slightly cheaper forward.

AMMONIUM CHLORIDE.—Grey galvanising is steady at £22 per ton, and slightly less for contracts.

ARSENIC.—There is a somewhat better feeling, and certain Cornish agents have raised their terms to £17 per ton f.o.r. mines, although there are sellers at £16 15s., if not less. Japanese is still offering at £16 10s. c.i.f., and for Mexican 99 per cent. £16 15s. c.i.f. is quoted.

COPPER SULPHATE is somewhat irregular, while some of the makers are comparatively cheap sellers down to £24 per ton f.o.b. for casks, less 5 per cent. The larger makers, however, are asking about £24 10s.

CREAM OF TARTAR shows a sharp advance, with to-day's prices of foreign firm up at 95s. to 100s. per cwt., less 2½ per cent. Sales have been made at the lower price. The Continental position is reported as being very firm.

EPSOM SALT shows no change, with a fair volume of business, mostly forward: spot, commercial, in single bags, £5 per ton, ex store; cheaper forward.

FORMALDEHYDE continues in quiet but steady demand: 40 per cent. by volume, £40 5s. per ton, ex store.

FORMIC ACID has been moving in better quantities, with 85 per cent. offered at from £45 10s. per ton, in carboys, ex store.

LEAD PRODUCTS.—Business has been poor; the market is steady at the close to-day. Lead acetate is steady but dull: brown, £41 5s.; white, £43 15s. per ton, in casks, ex store; red lead, imported, £34 15s., c.i.f. London; white lead, dry, £34; ground in oil, £35 10s., c.i.f. London.

OXALIC ACID has been one of the active items since the import duty was removed: quoted in quantities at 2⅞d. to 3d. per lb., ex wharf.

POTASH CAUSTIC is steady but quiet. 83 to 92 per cent. solid, £29 5s. per ton, in drums, ex store; 15 tons or more, £27 5s., c.i.f. U.K. port.

POTASSIUM CARBONATE is steady, but business is slow: 90 to 92 per cent., £24 10s.; 96 to 98 per cent., £26 per ton, in casks, ex store; cheaper for contracts.

POTASSIUM CHLORATE is rather cheaper for quantities to come forward, being quoted at about 3d. per lb., ex wharf; spot, in small lots, 3¼d.

POTASSIUM PERMANGANATE remains quiet, and there is keen competition between dealers: commercial quality, in two-cwt. drums, 4¾d. to 5d. per lb.

POTASSIUM PRUSSIATE is very steady: spot and forward, 7½d. per lb., in casks, ex wharf or store.

SODIUM ACETATE remains dull, and dealers holding stocks are inclined to take something less than their quoted rate of about £18 12s. 6d. per ton, in casks, ex store.

SODIUM CHLORATE is rather slack and prices are somewhat easier, with quantities to arrive at about 3d. per lb., in kegs, ex wharf.

SODIUM HYPOSULPHITE has met with occasional inquiry for forward delivery: dealers quote pea crystals at £15 7s. 6d. per ton, in one-cwt. kegs, and commercial lump at £9 per ton, in casks, ex wharf. British makers quote pure crystals for home consumers on contract at £15 5s. per ton, carriage paid to buyer's works.

SULPHUR is very steady, with a moderate demand, and crude is £6 5s. upward, c.i.f.; refined is about £12 17s. 6d. for Sicilian flowers and £10 5s. for rolls on c.i.f. terms.

COAL-TAR PRODUCTS, ETC.—Pitch shows a big drop at the end of the season. Carbolic acid crystals close slightly easier, and toluol is cheaper. Otherwise the market shows little change. ANILINE OIL is moving well at about 7½d. per lb., in leaned drums, carriage paid. ANILINE SALT is steady at about 7½d. per lb., packages extra, carriage paid. BETA-NAPHTHOL has been in good demand at about 1s. per lb., carriage paid. TOLUOL is cheaper on a quiet market: commercial 90's, 1s. 8½d.; pure, about 2s. 4d. per gallon, ex works. XYLOL, pure, about 2s. 6d.; commercial, about 2s. 2d. per gallon, ex works; market remains dull. CARBOLIC ACID CRYSTALS close the week at the rather easier price of 6½d. per lb., f.o.b., in drums with over-casks; at one time the market was firm and active at 6¾d. and upwards. CRESYLIC ACID continues in active demand, with 97 to 99 per cent. American specification firm at 2s. 4½d. per gallon, f.o.b., drums extra. NAPHTHALENE is dull: Continental flakes and balls, £14 per ton, f.o.b. Hamburg. Pure METHYL ALCOHOL is dull and easy for quantities as quoted at £46 per ton, in drums, ex wharf. PYRIDINE remains nominal on a lifeless market: 8s. 6d. per gallon, f.o.b. PITCH has fallen back to 80s. to 85s. per ton, f.o.b. East Coast, with business very slack, the season having just about ended.

Fixed Oils, etc.

ALMOST without exception these markets have been quiet throughout, and a number of items show a further slight decline in value. Turpentine remains slack, and linseed oil has quietened down. ACID OILS are dull and unchanged: coconut and/or palm kernel, 36s.; groundnut, 33s.; soya, 26s., spot. CASTOR is very steady, but business is quiet: pharmaceutical, 56s. 6d.; first pressings, 51s. 6d.; second pressings, 48s. 6d., spot, in barrels, in not less than one-ton lots. COCONUT is slightly easier and still dull: deodorised, 48s., spot; Ceylon, 41s., c.i.f.; Cochin, 44s. 6d., c.i.f. COTTON shows a decline, with the market still dull: deodorised, 46s.; common edible, 44s.; soap-making, 42s.; crude, 37s., spot. GROUNDNUT remains quiet and unchanged: deodorised, spot, 52s.; crude Oriental, 47s. 6d., c.i.f. PALM KERNEL has been quiet and unchanged: deodorised, 47s. 3d.; crude, 41s. 3d., spot. PALM has been quiet all the week and prices for all grades are easier: Lagos, 36s. 3d.; softs, 35s.; mediums, 35s.; hards, 34s. 6d.; bleached, 38s., spot. RAPE is quiet and easier: refined, 50s. 6d.; crude, 48s., spot. SOYA has been quiet all the week: deodorised, in barrels, 42s.; crude,

38s., spot. LINSEED (raw, naked) has held steady for a few days, but has now eased off a little and business has been quiet: on spot, 31s. 9d. per cwt.; March, 30s. 4½d.: April, 30s. 1½d.; May-August, 30s. 6d.; September-December, 31s.; boiled oil, on spot, 33s. 9d. Hull: on spot, 30s. 6d.; March-April, 30s. 6d.; May-August, 30s. 9d.; September-December, 31s. TURPENTINE.—The position here is being improved by the continuance of good home deliveries and also shipments to Continental ports. In spite of this, however, the market has drooped, due to the large stocks and good crop news from America. Deliveries last week amounted to 2,867 barrels, making a total of 29,729 barrels since January 1, which compares with 27,653 barrels for the corresponding period of last year. Total stocks were returned at 46,878 barrels, against 33,711 barrels at the same date last year. Quotations for spot spirit have fluctuated down to about 48s., but rallied on Wednesday to 48s. 6d. April is 48s. 9d.; May-June, 49s. 6d.; July-December, 50s. 3d. per cwt. RESIN.—Stocks are light, but are sufficient to meet the demand, and c.i.f. terms for shipment from America are given as follows: B to E, 21s. 3d. to 23s. 9d.; F to G, 25s. 1½d. to 26s.; M to N, 26s. 6d. to 27s.; W to G. 28s.; and W.W., 34s. 9d. per cwt. Spot terms stand at about 6d. over these figures. WOOD.—Hankow, in barrels, on spot is easier at 91s. per cwt. OLIVE.—French (B.P.), 8s. 6d. to 9s. per gallon; edible, 9s. 3d. per gallon; Italian edible, 10s. 3d.

LUBRICATING, MINERAL AND BURNING OILS, ETC.—Benzol has cheapened following the recent decline in petrol prices, otherwise the market shows little change. Business has remained quiet, and prices are mostly as quoted in last week's issue (p. 357). BENZOL.—Prices are cheaper: crude 65's, 1s. 3½d.; standard motor, 1s. 8½d. to 1s. 9d.; pure, about 2s. 5d. per gallon, ex works, in tank wagons. FUEL OIL.—Prices continue unchanged; market quiet: 950 gravity, £4 5s.; 890 gravity, £4 15s. per ton, ex tank. PARAFFIN WAX and SCALE remains dull and unsteady: wax, 2¾d. to 4¾d. per lb., according to melting point, in bags. Scale is quoted for shipment at about £20 5s. per ton, c.i.f. U.K. port. PARAFFIN OILS are unchanged throughout. WHITE OILS.—Prices show no further change from last week. SOLVENT NAPHTHAS remain quiet and easy. PETROLEUM JELLIES continue steady but rather quiet: white to snow-white, £38 to £58; amber and yellow, £18 5s. to £23; dark stiff green, £12 17s. 6d. per ton, barrels free, ex wharf. LUBRICATING OILS.—Spot position is unchanged and shipment market is unsteady.

London Drug Auctions

Commercial Sale Rooms,
Mincing Lane, E.C.3.
March 24.

MODERATE supplies offered at auction, but very few bids were forthcoming, and sales were more difficult to effect than usual. Cape aloes was steady. Sumatra benzoin being comparatively scarce was in better demand at firm prices. Buchu leaves were cheaper, and supplies larger. Cardamoms were entirely neglected, buyers hoping for lower prices. Reboiled dragon's blood was in request at firm prices, and reed has also been dealt in; gamboge was not offered. Honey was neglected throughout, and prices were lower. Buyers of ipecacuanha held aloof, the offerings of Matto Grosso and Minas being bought in at very firm prices. Myrrh is scarce, and rhubarb was firm. Grey Jamaica sarsaparilla was about steady compared with private prices, and native Jamaica was plentiful and the turn easier. Senna was neglected, with high prices paid for Tinnevelly pods. Beeswax was also neglected. The following table shows the quantity of goods offered and sold, the asterisk denoting private sales:—

	Offered	Sold
Aconite root (Jp.)	25	0
Aloes—		
Cape	76	22*
Curaçao	15	0
Zanzibar	6	0
Ammoniacum (cs.)	21	0
Anise (Russ.)	97	0
Annatto seed	118	0
Areca	25	0
Balsam tolu	3	0
Belladonna leaves	13	0
Belladonna root	10	0
Benzoin—		
Palembang	2	0
Saigon	5	0
Siam	16	0
Sumatra	74	29
Buchu	91	12
Calumba	200	10
Cannab. Ind.—		
African	10	0
Cantharides	4	0
Cardamoms	322	12
Cascara sag.	576	0
Cascarilla	4	4
Cashew nuts	55	0
Castile soap (cs.)	20	0
Chamomiles	22	0
Chaulmoogra oil (cs.)	20	0
Chiretta	10	0
Cinchona	64	0
Cinnamon oil (cs.)	7	0
Civet (hrns.)	19	0
Cochineal	7	0
Coconut oil (brls.)	5	0
Colocynth pulp	4	0
Copaiba	8	0
Cubebs	47	0
Cumin seed	17	0
Cuttle fish bone	35	0
Dragon's blood	96	10
Elemi	59	0
Ergot (Swiss) (dm.)	1	0
Eucalyptus oil	10	0
Galbanum	32	2
Gambier cube	5	0
Gentian	10	0
Gingergrass oil (pots)	3	0
Guaiacum	25	3
Gum acacia	35	20
Henbane (Russ.)	28	0
Henna	58	0
Honey—		
Calif.	60	0
Dominica	5	0
East Siberian (cs.)	450	125
Guatemala	6	0
Hayti	73	0
Honduras	12	0
Jamaica	314	10*
Porto Rico	9	0
San Domingo	103	0
Ukrainian (kgs.)	64	0
West Indian	21	8*
Ipecacuanha—		
Cartagena	24	0
Matto Grosso	2	0
Minas	8	0
Kino (Afr.)	12	0
Kola	123	0
Lavender oil (cs.)	2	2
Liquorice juice	9	0
Liquorice root	77	0
Margosa oil (dm.)	1	0
Musk seed	14	0
Myrrh	29	3
Nux vomica	41	0
Olibanum	32	0
Orange peel	69	4
Palmarosa oil (pots)	5	0
Pistachio nuts	67	0
Podophyllum root	49	0
Quillaia	2	2
Rhapontica root	50	6
Rhubarb (Ch.)	75	15
Sarsaparilla—		
Grey Jamaica	19	7
Honduras	11	0
Native Jam.	30	0
Scammony resin (cs.)	2	0
Senega	10	0
Senna and pods—		
Alex.	89	0
Tinnevelly	303	20
Stramonium leaves	4	0
Strophanthus	29	8
Tannic acid (brls.)	3	0
Tonka beans	29	0
Turmeric	128	0
Turtle dried	1	0
Valerian (Belg.)	26	0
Wax (bees')—		
East African	233	8
East Indian	21	0
Jamaica	1	0
St. Lucia	1	0
Wax, Carnauba	95	0

* Sold privately.

ALOES.—Cape was steady, twelve cases middling dullish seconds selling at 37s. to 37s. 6d. per cwt. Firsts were bought in at 42s. 6d. to 45s. per cwt. Ten cases had been sold privately.

AMMONIACUM.—A lot of ten cases offered, and seven were bought in at 9d. per lb. for small to bold loose yellowish tear, and three cases of blocky and dark were bought in at 6d. per lb. Privately the market is firmer, and a number of low-priced parcels have been cleared recently; good almondy drop is offered at 1s. per lb.; good, part blocky palish almondy is 9d., and olean boldish seed 7½d. per lb.

ANISE.—A lot of 85 bags Russian was bought in at 30s. per cwt., and a further 112 bags at 32s. 6d.; slightly less would buy.

BALSAM TOLU.—Two cases of common slightly drossy sold at 2s. 8d. per lb., and one case of common drossy at 1s. 10d.

BELLADONNA ROOT.—Ten bales testing (0.56 per cent. alkaloid) were limited at 65s. per cwt., and 13 bales belladonna leaves (0.45 per cent. alkaloid) were also limited at 65s. per cwt.

BENZOIN.—Sumatra was in better demand, the sales including ten cases good almondy seconds, slightly false-packed ends, at from £8 to £8 10s. per cwt., ten cases fair to good fair seconds, part of old fracture, £7 5s. to £7 15s. per cwt., subject to seller's approval, and eight cases country-cut seconds, with false-packed ends, at £6 10s. per cwt. Two cases Palembang barky thirds were bought in at £4 10s. to £4 17s. 6d. per cwt.

BUCHU LEAVES.—A lot of 13 bales offered without reserve, and seven sold at 1s. 1d. per lb. for fair round greenish slightly stalky, being cheaper. Two bales of fair round greenish slightly stalky (not without reserve) sold at 1s. 5d. per lb. Sales of similar quality privately have been made at from 1s. 5d. to 1s. 6d. per lb.

CALUMBA.—A lot of ten bags of medium to bold dark sorts sold without reserve at 5s. per cwt.; protected lots of fair natural small to bold yellowish sorts were bought in at 15s. per cwt.

CARDAMOMS were quite neglected, buyers holding aloof in anticipation of lower prices. The sales comprised four cases medium to bold pale Ceylon-Mysore at 6s. per lb., and splits and pickings (one case), 2s. 9d. A case of good dark brown Bombay seed sold at 4s. 6d. per lb. Good bold pale smooth Ceylon-Mysore pod was limited at 7s. per lb.

CASCARILLA.—Two bales lean stringy sold at 3s. 10d. per lb., and two bags siftings went at 2s. 2d. per lb.

CIVET.—A parcel of 19 horns offered and was bought in at from 6s. to 8s. per oz., according to quality.

COCHINEAL.—Two bags of blacks were held at 3s. 7d., and five bags silvers at 3s. 11d. per lb.

COLOCYNTH.—Four bales of Syrian yellowish pulp were bought in at 1s. 3d. per lb.

COPAIBA.—Eight cases dark filtered, ex-land carriage, were bought in at 2s. 6d. per lb.

CUBEBS.—A lot of five bags was bought in at £12 per cwt. for fair Singapore, analysis showing ether extract 25 per cent.

CUTTLEFISH BONE.—A lot of 33 cases offered, and was bought in at 9½d. per lb. for fair mostly broken East Indian sorts.

DRAGON'S BLOOD was in slightly better demand, two cases of good reboiled Singapore lump selling at £27 10s. per cwt., subject to seller's approval; two further cases had been sold privately, also two cases *reed*; £13 was asked for further lots of *reed* of fair quality.

GALBANUM.—Two cases country damaged and blocky sold at 3s. 5d. per lb., subject to seller's approval.

GUAIACUM.—Two barrels fair glassy lump sold at 2s. per lb., and a case of ordinary drossy went at 9d. per lb.

GUM ACACIA.—A lot of twenty bags slightly specky Kordofan grains sold without reserve at 42s. to 42s. 6d. per cwt., and a lot of 15 bags bleached Kordofan was bought in at 87s. 6d. per cwt.

HENBANE.—A lot of 15 bags sifted Russian showing .058 per cent. alkaloids was bought in at 40s. per cwt., and 13 bales of natural Russian showing .08 per cent. alkaloids was bought in at 35s.

HONEY was flat and lower. The chief sale consisted of 120 cases Eastern Siberian (450 cases offered), which sold at from 25s. 6d. to 41s. per cwt. for out-of-condition to pale to white set slightly sugary. The parcel was sparsely sampled (1 in 10), and the buyer therefore took a risk. Apart from this there was no business; 10 Jamaica and eight St. Lucia had been sold privately. Pale set Jamaica was obtainable at from 44s. to 48s., and straw set 36s. to 40s. per cwt.

IPECACUANHA.—Of Matto Grosso, eight bales offered, and were bought in at 28s. per lb., the bulk being below average quality, being inferior stemmy. Four bales fair Minas were bought in at 24s. per lb., a bid of 20s. 6d. being refused for part. Dull grey to good plump Cartagena was held at 15s. 6d. to 16s. per lb.

LAVENDER OIL.—Two cases Spanish (30 to 32 per cent. and 15 to 20 per cent.) sold on sample, without any guarantee, at 3s. 6d. per lb. without reserve.

MYRRH.—Three bags fair Somali sorts partly blocky sold at 90s. per cwt.

NUX VOMICA.—A lot of 41 bags dull bold Bombay was bought in at 16s. per cwt. Privately Cochin is quoted at 17s. 6d. per cwt.

ORANGE PEEL.—Of new crop so-called Maltese strip large supplies were offered, good bright being obtainable at 1s. 6d. per lb. Four bags of common green quarters sold without reserve at 1¼d. per lb.

QUILLAIA.—Two bales of rough thick whole sold at 30s. per cwt.

RHAPONTICA.—Six bags Chinese had been disposed of privately, and further lots were obtainable at 7½d. per lb.; twenty bags French were bought in at 6d. per lb.

RHUBARB was in fair demand. Four cases bold to medium round Shensi, with seven-eighths pinky fracture and one-eighth grey, sold at from 3s. 9d. to 4s.; bold flat ditto (two cases) went at 3s. 9d., and bold round, with three-quarters fair pinky fracture, at 3s. 8d. Medium to bold round Canton (two cases) went at 2s. 4d., and one case very wormy Canton pickings went at 1s. 5d. subject. A case of rough round High-dried sold at 2s. 2d., and two cases very wormy ditto at 1s. 4d. Four cases medium to bold round rough High-dried, with half good pinky fracture, sold at 2s. 3d. per lb.

SARSAPARILLA.—Grey Jamaica was steady compared with private sales, but 3d. to 4d. per lb. higher than the previous auction, seven bales selling at from 1s. 11d. to 2s. per lb. for part dark and rough to good fibrous. A further 12 bales were bought in at 2s. 3d. Native Jamaica was neglected; a bid of 1s. 6d. is to be submitted for good red; dull red and yellow mixed was obtainable at 1s. 4d. to 1s. 5d. per lb.; 11 packages Honduras were limited at 1s. 7d. to 1s. 8d. per lb. No Lima-Jamaica offered.

SCAMMONY RESIN.—Two cases were offered at the reduced limit of 3s. per lb.

SENNA was neglected. Five bales of medium to bold greenish Tinnevelly leaf sold at 6d. per lb.; ten bales good pods sold at 4¾d. per lb., and three bales fair at 4½d. Fair hand-picked Alexandrian pods were bought in at 4s. per lb., a bid of 3s. 6d. being refused; fair green whole Alexandrian leaf was bought in at 7½d. per lb.

STROPHANTHUS.—Eight bags sold at 5½d. per lb., without reserve.

TURMERIC.—A lot of 128 bags fair Madras finger was offered and bought in at 30s. per cwt.

VALERIAN.—A lot of 20 bags of Belgian was bought in at 75s. per cwt.

WAX, BEES'.—A lot of 21 cases dull bleached Calcutta was limited at £10 5s. per cwt. Eight bags of fair Mozambique pipe and block mixed colours part slightly drossy sold at 167s. 6d.

WAX, CARNAUBA.—Six bags chalky grey were bought in at 145s. per cwt., and five bags yellow at 270s. per cwt.

Stocks of Vanilla

ON December 31, 1926, the stocks of vanilla in bonded warehouses in France totalled 134,400 kilos, compared with 151,200 kilos. on the same date of 1925, and 137,100 kilos. end of 1924. Of this total, 113,700 kilos. was in bond in Marseilles, 4,200 kilos. in Havre, and 16,500 kilos. in Paris. These figures are published by the French General Direction of Customs. Vanilla beans to a total of 129,872 lb. remained in bonded Customs warehouses in the United States on December 31, 1926.

Bulgarian Rose Oil Exports

ACCORDING to the figures now published by the General Direction of Statistics, Bulgarian exports of rose oil in November 1926 amounted to 186 kilos, valued at 15,001,484 levas, consigned to the following countries: Great Britain, 9 kilos; Germany, 32 kilos; Italy, 3 kilos; United States, 64 kilos; France, 51 kilos; Switzerland, 27 kilos; and Czechoslovakia, 480 grams. During the first eleven months of 1926 exports of rose oil totalled 2,989 kilos, valued at 202,150,456 levas.

West African Kola

THE shipments of kola from Sierra Leone during 1925 amounted to 5,469,358 lb., valued at £215,721, compared with 5,686,066 lb., valued at £180,976, in 1924. The continued slight decrease was due to a poor mid-year crop and to the falling away of shipments to the Gambia, but prices were better than in 1924. Sierra Leone kolas maintained their hold in the French Senegal market last year, and exports to Nigeria show a steady increase and are now substantial.

Java Cinchona and Coca Exports

THE following table gives the exports of cinchona and of coca from Java, with the countries of destination, during the first eleven months of 1925 and 1926 respectively (amounts in kilos):—

——	Cinchona		Coca	
	Jan.–Nov., 1925	Jan.–Nov., 1926	Jan.–Nov., 1925	Jan.–Nov., 1926
	Kilos	Kilos	Kilos	Kilos
British India ..	140,000	65,622	—	—
Egypt	—	—	—	11,426
France	—	16,537	—	18,819
Germany	—	—	14,518	27,242
Great Britain ..	542,000	753,639	—	—
Japan	445,000	602,521	304,396	206,558
Netherlands ..	4,462,000	4,113,314	599,329	720,102
Port Said	—	—	—	8,837
Other countries ..	50,000	—	—	—
Total	5,639,000	5,551,633	918,243	992,984

During the period January to November inclusive of last year Java exported 129,128 kilos. of quinine, as compared with 165,814 kilos. in the corresponding eleven months of 1925.

German Chemical Exports

THE following table gives the exports from Germany during the month of January 1927 of a number of chemicals of interest to our readers. Figures of the exports to Great Britain and the British Empire are also shown; wherever they are, these destinations are given in the official German statistics:—

——	Kilos.	——	Kilos
Acid, acetic; acetic anhydride ..	1,008,700	Bismuth salts ..	7,700
Great Britain ..	317,100	Bromides: pot.; sod.; ammon.; iron; bromoform ..	45,400
Acid, benzoic; benzoates	33,100	Great Britain ..	11,000
Acid, lactic; lactates	145,900	Bromine	29,200
Great Britain ..	46,700	Great Britain ..	16,100
Australia	1,500	Eau de Cologne ..	19,400
Oxalic acid ..	451,100	Brit. South Africa	2,000
Great Britain ..	60,200	Australia	2,300
Acid, salicylic; salicylates ..	9,400	Glycerin, crude ..	83,300
Acid, tartaric ..	327,900	Glycerin, pure ..	421,800
Great Britain ..	52,000	Canada	27,000
Alkaloids, cinchona	6,164	Hexamethylenetetramine	11,200
British India ..	832	Great Britain ..	8,000
Alkaloids, other than cinchona ..	9,296	Iodides: pot., sod., ammon.; iodoform	6,200
Great Britain ..	190	Mercury salts ..	9,800
British India ..	433	Great Britain ..	5,200
Canada	1,106	Milk sugar	13,800
Ammon. chloride ..	2,046,600	Great Britain ..	3,300
Great Britain ..	246,400		

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1926, p. 309.

(From "The Trade-marks Journal," February 23, 1927.)

"ELVIRA" on scenic device of Pompadour figure and flowers; for perfumery, etc. (48). By Ninon, Ltd., 224 St. Vincent Street, Glasgow. 477,278.

"IFFA"; device of flames and chain; for fire-extinguishing compounds (50). By "Iffa," G.m.b.H., 2 Unter den Linden, Berlin, W.8. 474,953/955. (Associated.)

"MONTIX"; for photographic printing frames (50). By Montix, Ltd., Kent House, Regent Street, London, W.1. 476,846.

(From "The Trade-Marks Journal," March 2, 1927.)

"HARCOL" and "HARCLENE"; for grease solvents (1). By Harding Chemical Co., Ltd., New Thomas Street, Pendleton, Salford. 468,453; 471,228. (Associated.)

Device of two fantastic animals; for disinfectant fluids (2). By Comber, Bride & Co., Ltd., 1-4 Paternoster Row, London, E.C.4. 476,811.

"HALOZON"; for medicinal chemicals (3). By J. Browning, 33 Penrith Street, Streatham, S.W.16. 473,455. (Associated.)

"PETROCINE"; for petroleum jelly (3) and (48). By Petroleum Products, Ltd., 308 Tower Building, Water Street, Liverpool. 473,566/567. (Associated.)

"A.1. BRAND" on shell device ("A.1." disclaimed); for medicinal chemicals (3). By The General Kaputine Syndicate, Ltd., Lilley Street, Queen's Road, Manchester. 473,731.

"POMONA"; for medicinal liquorice juice (3). By J. Crampton & Co., Ltd., 31 Princess Street, Chester Road, Manchester. 474,185. (Associated.)

Design of Dutch scene in frame; for medicinal chemicals (3). By S. and I. Elboz, 175 Brixton Road, Brixton, S.W.9. 475,592.

"ALGIT"; for embrocations (3). By C. Leuffen & Co., Kommandit-Gesellschaft, 1 Leienbergerstrasse, Eitorf-on-the-Sieg, Prussia. 476,835. (Associated.)

"LANDWOR"; for a medicine (3). By L. Rowland & Co., 9 High Street, Wrexham. 476,641.

"HYGIEA"; for vacuum bottles, etc. (15). By F. Schmidt, 51 Ritterstrasse, Berlin. 474,649.

"WHITE CROSS" on device of circle bearing cross; for tissue paper, crêpe paper and paper towels (39). By Interlake Tissue Mills Co., Ltd., River Road, Merritton, Ontario, Canada. 476,671.

"KAYLOIDS"; for all goods (42). By Kay Brothers, Ltd., St. Petersgate Mills, Stockport. 476,477.

"CHESEBROUGH SOLIDIFIED BRILLIANTINE" on label device ("Chesebrough" disclaimed); for brilliantine made in London (48). By Chesebrough Manufacturing Co., Con., 17 State Street, New York, U.S.A. 475,147. (Associated.)

"FRIPP'S OTTO DE ROSE" on wrapper design including flask and conventional border; for soap perfumed with otto de rose. By Fripp's, Ltd., 3 Broad Plain, Bristol, B 476,201.

"LUSTREPHANE"; for cellulose or gelatin containers, etc. (50). By R. Dixon & Co., Ltd., Rock Works, Mough Lane, Foxdenton, Middleton Junction, nr. Manchester. 475,850.

(From "The Trade-marks Journal," March 9, 1927.)

"MIRA NATURAL MEDICINAL WATER FOR DOGS," with picture of dogs, directions for use, etc. "MIRA NATURAL MEDICINAL WATER," with picture of birds, etc.; for natural medicinal water for veterinary use (2). By Everett & Co., 106 Fenchurch Street, London, E.C.3. 472,250; 476,139. (Associated.)

"SLUGICIDE"; for chemicals (2). By The British Drug Houses, Ltd., 16-30 Graham Street, City Road, London, N.1. 476,595.

"KENTOX"; for weed killer (2). By Abol, Ltd., Beltring, Paddock Wood, Kent. 476,958. (Associated.)

"CYCLAX": for goods (2) and (3). By Fanny Lester, 58 South Molton Street, London, W.1. 477,234/099. (Associated.)

"GLYCERINE LEMON & IPECAC MIXTURE"; "CHEST AND LUNG MIXTURE"; "COMPOUND SYRUP OF FIGS"; "BALSAMIC SYRUP OF LINSEED & MARSHMALLOW" with label devices; for medicines (3). By Stotherts, Ltd., North Road, Atherton, Lanes. B473,503/504/506/508.

"VALIBROMAT"; for medicinal chemicals (3). By H. R. Napp, Ltd., 3 & 4 Clement's Inn, London, W.C.2. 475,648.

Correspondence

Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Pharmaceutical Parliamentary Fund

SIR,—With your permission, I am writing to the Press in reference to the above fund, the success of which attracts my keenest interest, even though I am now retired from active business. The intention of the Council to advocate parliamentary representation was officially notified in January, and at the same time an appeal for £10,000 was issued with the intimation that this amount would be required by April. April is now close upon us, and as yet I have seen no authoritative statement made about the fund as it stands to-day. The Council may have good reason for withholding the statement, but I venture to suggest that publicity would be advisable. There seems to be a prevailing opinion that £10,000 is a large sum to collect, and the amount gets magnified by repetition of various speakers. In my opinion, £10,000 is quite inadequate for proper and effective representation, and is so described by A. W. Bromley in a letter to the Press, in which he points out, in his lucid style, how little it could effect if allowed to remain at that amount. I quite agree. Personally, I would like to see a candidate (pharmacist) nominated from each political party. Any candidate nominated must be a party man, and unless recognised and accepted by his own party organisation he would not stand the slightest chance of election. The adoption of an hireling must not be entertained. The best friend the craft has ever had in the House of Commons was Sir William Glyn-Jones, and he was a party man, but a true and loyal pharmacist when legislation affecting pharmacy required personal advocacy. Even the smallest industrial trade union recognises the value of representation in Parliament, and its members submit to a levy to raise and maintain the fighting fund, the smallest and poorest of which would scorn such an amount as £10,000 as being insufficient. At the present time there are 20,542 pharmacists on the Register of the Pharmaceutical Society, who ought to have representation. Surely such a goodly number of intellectual men and women could, with combined efforts, attain its ideal. Medical men—indeed, all professional bodies—are strongly represented in the House. Why not pharmacists? At the earlier meetings of the appeal campaign some rather futile questions were asked; and if an official announcement could be made of the success of the appeal up to the present time it would quickly silence these doubting Thomases. Certainly such a statement just now would greatly encourage the various speakers at later meetings, and stimulate local associations, which perhaps have been a little slack in their efforts. Most surely the grotesque and absurd Regulations of the D.D. Acts now on the statute book by departmental instructions, made by Orders in Council, are sufficient to justify the strongest action to prevent future repetitions. Finally, the Pharmaceutical Society has officially decided that the best interests of pharmacy must seek protection in parliamentary representation, equally with other professional bodies and trade unions, and has proclaimed its intention to endeavour to bring it into effect. The appeal cannot—must not—be allowed to fail. The Society has strong backers in the P.A.T.A. and R.P.U., but the rank and file of pharmacy, for whose benefits representation is being urged, must not depend too much for the success of the fund upon its support by wealthy manufacturers or equally wealthy wholesalers, but mainly on the larger and smaller donations of each and every retailer and prospective future retailer. Precept is good, but practice is better. I sent my donation to the Appeal Fund on January 3 to the secretary of the Society as an earnest of my desire for a quick and ultimate success.

Yours, etc.,

R. FEAVER CLARKE.

Henbury, New Milton.

The Eau-de-Cologne Exemption

SIR,—The reply given to "E. de Co." on page 360 of your issue of March 19 prompts me to send a few notes which may be of specific interest to your interrogator, and may be of general interest to a wider range of readers. Eau de Cologne as "Waters—Cologne" was first charged with stamp duty under the provisions of the 1786 Stamp Duty on Perfumery, etc., Act; the revenue from this particular enactment proving a failure, it was repealed in 1800, and again in 1861 by the famous Statute Law Revision Act of the late Mr. Gladstone. Probably as a result of the 1800 repeal, eau de Cologne does not appear in the schedules of the 1802, 1803 and 1804 Medicine Stamp Acts, but it is included in the schedule of the 1812 Medicine Stamp Act, and with the rest of the named articles became specifically liable to medicine-stamp duty. The question of its exemption by a Treasury minute prior to 1849 is one which has involved me in a considerable amount of research through every possible avenue of information which might lead to the ascertaining of the minute concerned, but without result. Ultimately a request was made to the officials of the Treasury and the Board of Customs and Excise for help, and in response the following reply, dated September 14, 1926, was received from the Commissioners of Customs and Excise :—

. . . The Commissioners regret that they are unable to give you any information as to the Treasury minute relating to Stamp Duties on eau de Cologne prior to 1849, as the document cannot be traced in this office. . . .

Yet another point of interest: this exemption of eau de Cologne is referred to in Dowell's "History of Taxation," vol. V., page 370, and the statement there made is repeated in Alpe's "Medicine Stamp Duty," page 25. Such an authority as Dowell would scarcely make the statement without adequate knowledge of the existence of the exempting minute, and one can only regret that this interesting and important document is not available. The present non-liability to medicine-stamp duty of eau de Cologne—despite its inclusion in the Schedule of the 1812 Act—is due to the fact that it is considered a perfume and not a medicine—in other words, it is actually outside the provisions of the Act unless it is brought within its scope by recommendation for medicinal use, or other liability under the "general charge" of duty. There is the further matter of exemption under the specific repeal of the 1786 Stamp Duty on Perfumery Act by the Statute Law Revision Act of 1861, the legal application of which I am not competent to discuss.

Yours faithfully,
W. WYATT.

Rutland House, Eccles.

Government Poisons Committee

SIR,—From your editorial article on "The Poisons Committee" (*C. & D.*, March 19, p. 348) it would seem that all classes of people have been rushing before the Committee with claims which would only benefit themselves individually without any respect for the welfare of the public. The spectacle of a body such as the Society of Medical Officers of Health, whose duty would seem to be to protect the public health, claiming that local authorities should be free from the restrictions on the sale of poisons, is Gilbertian; from what customers tell one, these authorities should rather have the restrictions tightened up. It looks as though the Pharmaceutical Society is about the only body which has put in no definite claim for the benefit of its own members; if this is so, from what proceeds such undue modesty? It is a surprise to learn that Sir William Glyn-Jones advocates the formation of a pharmacy board. If such a board came into existence, it is a certainty that chemists would have to pay an annual licence fee to meet the expenses of the board; and as the Society would then have no legal ground for existence, membership would become only sentimental, and undoubtedly the Society would cease to exist. Surely Sir William does not advocate the closing down of No. 17? It is unfortunate that the Society have put in a proposal for an annual licence fee, as this opens the way for the suggestion of a board.—Yours, etc.,

A MEMBER (21/3).

Legal Queries

Perplexed (17/3).—The title Bronchial Mixture is not one that incurs liability to medicine-stamp duty.

L. L. (16/3).—There is no objection to the use of the terms "manufacturing chemist" or "manufacturing druggist" so long as the user does not engage in retail trade.

H. J. L. (15/3).—The preparation known as Indian Brandee, consisting of spt. æther. nit. tr. rhei, etc., can only be sold by registered chemists or by persons holding a spirit licence, unless made from a formula containing less than 3 per cent. of spirit.

F. S. Co. (18/3).—Salines are not subject to medicine-stamp duty as a result of the repeal in 1833 of the section in the Medicine Stamp Act which imposed the duty. No question arises, therefore, as to liability even if the article is recommended for ailments.

S. O. S. (15/3).—(1) The retail sale of pharmaceutical products which are scheduled poisons is confined to registered chemists, but limited companies may sell poisons if they conform to the requirements of the Poisons and Pharmacy Act, 1908. (2) The seller of a cure for ringworm requires to pay medicine-stamp duty for the article.

W. H. E. (18/2).—Lysol is a scheduled poison as a liquid preparation containing more than 3 per cent. of a homologue of carbolic acid—i.e., cresylic acid. See *C. & D. Diary*, 1927, p. 266. The *C. & D.* Poisons Card No. 2 contains an extended list of scheduled poisons, and would be useful to you in your difficulty of interpreting the Poisons Schedules.

Fairplay (19/3).—It is one of the best-known pieces of legal information that chemists' assistants must give or receive a month's notice to leave. This does not depend on the frequency with which the salary is paid, but is the "custom of the trade" in the absence of a definite agreement to the contrary. This can be enforced in a court of law.

L. N. C. (19/3).—There has been no change recently in the law regarding the sale of vinegar. A product made with acetic acid and coloured with burnt sugar cannot properly be sold as vinegar without some qualification of the term, for example, "artificial vinegar." The term "acid vinegar" is not, in our opinion, a suitable qualification, as all vinegar is acid, and the term does not convey the fact that the article is not brewed vinegar.

R. G. S. (13/3).—A man has been insured under the Unemployment Insurance scheme for eight years without drawing any benefit. He is now seventy-eight years of age. Is he entitled to any repayment of contributions? [The man is entitled to a refund of contributions in respect of the period up to July 7, 1924; but he should have made application before by July 6, 1925. However, if he was not aware of his right he will be allowed to make his claim now. His application will have to be made on form U.I. 557, which is obtainable from the nearest Employment Exchange. He will also have to produce his unemployment book and, probably, a birth certificate.]

C. F. S. (14/3).—Under a verbal agreement, B undertook to build a house for A, to be finished in August. By October the house was not completed and B went bankrupt. On the advice of the official receiver the job was given to another builder, C, to finish. Is A entitled to damages for breach of contract, and must he let the official receiver know what he pays C? [It would appear that A has a right of action against B for damages if he can prove that as the result of the non-completion of the house by the stipulated time he, in fact, suffered damage. A should send his claim for damages to the official receiver, and, if it is accepted, prove in the bankruptcy for the amount agreed upon. If the official receiver refuses to allow the claim, A's only course is to sue B, which would probably not be worth while. As we do not know what arrangement was made with the official receiver as to the completion of the house by C we cannot express an opinion upon the other question. But if the contract has been absolutely assigned to C, neither B nor the official receiver has any further interest in it.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

C. M. M. (Queensland) (20/1).—NEW LACQUERS.—See *C. & D.*, October 23, 1926, p. 623, and read also the series of articles on New Solvents which deal with the same subject.

P. W. C. (10/2).—HAIR-FIXING CREAM.—See *C. & D.*, February 20, 1926, p. 284.

F. W. (25/2).—(1) BOOK ON COSMETICS.—Poucher's "Perfumes, Cosmetics and Soaps," Vol. II, 21s. (Chapman & Hall), will suit your requirements. (2) "Pharmaceutical Formulas" is out of print, but copies can generally be obtained through an advertisement in the Coloured Supplement.

B. P. & Co. (4/3).—M. Q. DEVELOPER.—The following are suitable formulas for concentrated M.Q. developer :—

I

Metol	90 gr.
Hydroquinone	350 gr.
Water, distilled	14.6 fl. oz.

Heat the water to 112° F. and dissolve in it the metol and hydroquinone and add

Sodium sulphite (anhydrous) ... 1,200 gr.

Stir for two minutes. This will produce a greyish-white precipitate. Then add

Caustic soda (pure stick) ... ... 220 gr.

Stir until all the soda is dissolved. The white precipitate will then have disappeared. Filter rapidly and store for use. The temperature of development should not be above 70° F. As the developer contains caustic alkali, a hardening bath should be used for plates or papers whenever possible. For plates or films one part is mixed with 15 parts of distilled water. Time of development, 4 minutes. For tank development. 1 part; water, 31 parts. Time of development, about 8 minutes. For bromide papers and lantern plates, stock solution 1 part, water 15 parts. For gaslight papers, stock solution 1 part, water 15 parts, with addition of 1 drop of 10 per cent. solution potassium bromide per ounce of working developer for bromide effects, or 3 drops for black and white effects.

II

Metol	35 gr.
Sodium sulphite cryst.	2 oz.
Hydroquinone	50 gr.
Potas. brom.	15 gr.
Sodium carbonate cryst.	1½ oz.
Water ... ... to	20 oz.

Dissolve in the order given. For use mix with an equal volume of water.

C. L. L. (8/3).—BAY RUM.—*See C. & D.*, August 22, 1925, p. 288.

A. F. (9/3).—INSURANCE DISPENSING.—The position with regard to the supply of drugs and appliances to insured persons situated in rural areas may be summarised from the Medical Benefit Regulations as follows : The normal method of supply prescribed by the National Insurance Act is through a chemist who has contracted with the Insurance Committee to dispense medicines to insured persons. The conditions are :—

10 (1). If an insured person can satisfy the Committee that because of distance or inadequacy of means of communication (travelling facilities) he will have serious difficulty in obtaining drugs from a chemist, the Committee shall require the doctor attending the insured person to supply him with all necessary medicines and appliances.

In this case no particular distance is specified, but apparently it would apply where the insured person is within one mile of a chemist's shop, for the case of persons beyond that distance is specially dealt with in another paragraph :—

10 (2). If an insured person is resident more than one mile from the nearest chemist, the Insurance Committee shall decide whether he shall obtain medicines from his doctor or from a chemist. The Committee shall notify the person of their decision, and the notice shall state that he is free to adopt either the method of obtaining drugs decided upon by the Committee or an alternative method.

10 (3). The decision of the Committee shall hold good unless the insured person gives notice within seven days that he desires to adopt the alternative method.

In any case, if it is decided that the insured person shall obtain supplies from his doctor, the Committee shall require the practitioner to supply to the insured person on his list all medicines and appliances that may be necessary for his treatment.

F. W. (12/3).—WINDOW DISPLAY.—A spring goods window showing sulphur lozenges, sarsaparilla mixture, salines, etc., is suitable for the present season.

R. A. P. (14/3).—CLEANING HAIR BRUSHES.—Solution of ammonia diluted with water is generally employed for cleaning hair brushes. This is used quickly and the bristles dried with a cloth and in a current of air. The softening effect on the bristles is comparatively slight and passes off in a day or two. Benzine is a grease solvent, which does not affect the bristles like alkali, but the after-smell is objectionable to many.

F. P. R. (14/3).—We think you will find that if the hard parchment is subjected for some time to the action of steam it will be softened so that the folded sheets can be opened for the purpose of transcribing the contents.

D. D. (14/3).—APPROVED FORMULAS.—The *C. & D. Diary* each year for many years has contained a large number of formulas of the kind you require. These have not been published in book form.

P. M. (15/3).—IRRITATING LOTION.—It is possible that a sensitive skin would be affected by the hair lotion the formula for which you send, bearing in mind the drying effect of the spirit it contains. Resorcin may be an irritant to such skins, but generally 2 per cent. strength is regarded as non-irritating.

J. M. (16/3).—APPRENTICES' POSITION.—All entrants into pharmacy must be registered, and until that is done the Council is not bound to accord any recognition whatever to hours of service rendered before that time. The Council apparently has the power in *bona-fide* cases, but for the last two years the regulations have been rigidly applied.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," March 15, 1877

Historical Sketch of Poisons

From a Paper by M. Gilbert, Pharmacien, Moulins.

Among the special treatises on poisons the most interesting, as it is also the most complete, is that attributed to Dioscorides, a celebrated physician of Cilicia, who lived about the commencement of the Christian era. In this treatise, which forms the sixth, seventh and eighth books of his great work on Materia Medica, we meet with the first allusion to arsenic. This substance, which has only been properly studied in modern times, was then more commonly known as sandarac than as arsenic. It was generally obtained from Mysia, on the Hellespont, in the form of compact yellow pieces, heavy and scaly. It was orpiment, or the yellow sulphide. It is somewhat curious, however, that we do not find white or sublimated arsenic referred to more precisely, as we read in Pliny that the properties of the orpiment are more developed if it is burned in a new earthenware vessel until it changes colour. ("*Torretur ut validius prosit in novâ testâ donec mutet colorem*," Bk. 34, ch. 18.) Dioscorides also remarks that when calcined with charcoal the sandarac changes its colour. So that we may gather that under the name of arsenic the ancients understood sometimes the sulphide and sometimes the white arsenic. Clearly, the poison was known to them, and no doubt was employed. It was the prompt and terrible agent of those secret dramas of the imperial palace, the scandalous mysteries and odious machinations of which are related by Tacitus. The palace of the Cæsars was as well furnished as the laboratory of Locusta. There, in a remote apartment, under the eyes of an attentive and suspicious master, with poor slaves for the victims, were made those *experientiæ in anima vili* of some new compound destined to render a Claudius or a Britannicus prematurely immortal.

THE CHEMIST AND DRUGGIST

COMMERCIAL COMPENDIUM

deals with the trade side of pharmacy

[Commenced *C. & D.*, July 5, 1924]

Insurance, Life: Mutual versus Proprietary Companies.—Life assurance companies may be divided into two classes, "mutual" and "proprietary." The former have no shareholders, and consequently the whole of the profits belong to the policy-holders. The latter type of office belongs to the shareholders, who receive a small share of the profits arising from the life assurance business in return for the protection afforded by their capital. It is provided in the Assurance Companies Act, 1909, that, in the case of a company transacting more than one class of business, the receipts of each class of business shall be carried to a separate account with an appropriate name, and that the fund of any particular class shall be liable only for the business of that class. It is evident, therefore, that, although a proprietary office may transact classes of business other than life assurance, no other class of policy-holder can have any claim on the life assurance fund while life policy-holders in common with other creditors have the security of the shareholders' capital. From a cursory glance it might appear in making a comparison of two well-managed and old-established offices, one "mutual" and the other "proprietary," that the advantage from the point of view of the policy-holder must lie with the former. The position, however, in many cases would not be so clear, since the proportion of the surplus taken by the shareholders is usually very small and, moreover, in some instances in which other classes of business are transacted, the expenses borne by the life department are limited to a definite percentage of the premium income, this percentage being considerably less than the actual ratio of expense. Further, although the chance of the shareholders' capital being required to meet the liabilities of the life assurance fund may seem very remote in the case of a well-managed office, yet the benefit that it confers is far from negligible, a fact that was conclusively proved shortly after the close of the European war, when the shareholders of two large proprietary offices contributed to the life assurance funds in order that the continuity of the bonus might not be broken.

Insurance: Life.—Life assurance is defined in the Assurance Companies Act, 1909, as "the issue of or the undertaking of liability under policies of assurance upon human life or the granting of annuities upon human life." Life assurance has multifarious forms, but from the business rather than from the personal point of view of the chemist and druggist life assurance is mainly of interest in that it affords:—(*a*) A means of providing a sum of money at the end of a specified period; (*b*) security for the repayment of a debt in the event of the death of the borrower; (*c*) a means of providing money to replace capital that may be withdrawn from a firm on the death of a partner. It should be borne in mind that, although one person may assure the life of another, it is essential that the former have a legal pecuniary interest in the life of the latter—collateral security for the repayment of a debt would, of course, be a sufficient reason. A sum of money can be provided at a specified date by either an endowment assurance or a pure endowment. The former, which may be either with profits or without, provides for the payment of the sum assured either on the survival of the life assured to the date of maturity or on his death, should that occur previously. The latter, which is almost invariably without profits, provides for the payment of the sum assured only on survivance to the date of maturity. In the event of previous death the contract comes to an end, and the premiums paid are returned (either with or without interest) or not, according to the type of contract. The premiums for an endowment assurance are, of course, greater than those for a pure endowment, and the cost of a pure endowment with return of premiums in the event of death is naturally greater than that of a "non-returnable" contract. When considering the relative merits of an endowment assurance and a pure endowment, it should be borne in mind that the premiums paid by a person under a policy of the former type upon his own life rank for rebate of income-tax, subject to the limitation that they should not be greater than 7 per cent. of the sum assured, and that the whole of the premiums upon which rebate is claimed shall not exceed one-sixth of the person's income. Under a pure endowment no rebate of income-tax is allowed.

Collateral security for the repayment of a debt can be obtained by effecting upon the life of the borrower either a whole of life assurance (if the debt is to run for an indefinite period) or a term assurance (if the debt is to be repaid within a specified time). Under a whole of life assurance, which may be either with or without profits, the sum assured is payable at death whenever that may occur. The premiums under the ordinary form of policy are payable throughout the whole duration of the assurance; but in order to avoid the obvious disadvantages of paying premiums for an indefinite period, a person can secure at increased premiums a policy subject to premiums the number of which is limited to a fixed maximum. A term assurance, which is always without profits, secures the payment of a sum of money at death should that occur within a specified period. In the event of the survival of the life assured to the end of the term, the contract comes to an end and the premiums paid are retained by the company. The sum assured may be a level amount throughout the whole of the assurance, or it may decrease periodically. The latter form, for which the premiums also decrease with each reduction in the sum assured, is suitable in cases in which, according to the conditions of the mortgage, the amount of the loan has to be periodically reduced. Endowment assurances and whole of life assurances may, if desired, be effected on two lives instead of one, the sum assured being payable at the first death. Assurances such as these, known as "joint life" contracts, are often effected in connection with partnerships to replace, as explained earlier, capital that will be withdrawn from a firm at the death of a partner. In order to avoid difficulties in the event of a dissolution of partnership, an assurance company will usually in these circumstances convert a joint life assurance or a joint life endowment assurance into two separate single life contracts, each for one-half the original sum assured, at the premiums that would have been payable had single life policies been effected at the outset. Occasionally it may be desired, in the case of a whole of life assurance or an endowment assurance, to pay reduced premiums for the first few years. This can usually be arranged, though, of course, the premiums in the later years are increased to make up for the deficiency in the earlier premiums.

Insurance: Lift.—Special policies are available to provide against third party claims for injuries due to the use of passenger or goods lifts or hoists. The cover applies to accidents, whether caused by the lift itself or by the gates, ropes or any other part of the appurtenances. The only feature in which lift insurances differ from other forms of third party contract is that it is invariably required that mechanically driven lifts or hoists shall be inspected periodically by a competent engineer and that reports on such inspections shall be forwarded to the insurance company. Many companies have engineering departments of their own, by which these inspections can be carried out, while others are prepared to make suitable arrangements with a firm of lift makers or engineers, the fee being added to the third party premium each year. These lift firms offer various alternative forms of inspection contract. One of the simplest merely provides for periodical inspections, cleaning, oiling, and adjusting, repacking for hydraulic lifts or fitting new motor brushes for electric ones, and the furnishing of reports. Another form of contract makes provision for the carrying out of small repairs, but the makers will also quote for the full maintenance of the lift. Any of these contracts can

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be arranged through the insurance company and the annual charges paid in conjunction with the premium. Lifts may also be insured against damage due to breakdown, whether caused by an actual fracture of some part or by any sudden stoppage that necessitates the complete disuse of the lift for repairs. Breakdown insurance carries with it the periodical inspections and reports required for the third party risk; in fact, the two are often arranged in conjunction. Lift insurance rates vary considerably, but the charges for an ordinary passenger lift carrying up to six persons, and assuming indemnity limits of £1,000 per passenger and £2,000 per accident, would be about £3 10s. for the third party risk *plus* £2 for inspections or £6 for inspections and monthly oiling and cleaning, etc. Breakdown rates depend, *inter alia*, on the type and age of the lift, and differ substantially. Rates for goods lifts and hoists are, on the average, about half those of passenger lifts for the third party risk, but not greatly lower for the engineering work.

Insurance: Live Stock.—The insurance of horses and cattle against death by accident or disease is nowadays of little interest to the majority of traders, apart from farmers, horse breeders and so forth; cover of this nature is, however, sought by those who own horses for draught purposes. The premiums charged for the insurance of draught horses depend on the value and age of the animal and the trade in which it is used. No increase in premium on account of age is made until the horse exceeds nine years, and then an extra charge is made at the rate of 1 per cent. on the sum insured for each year above nine. The sum insured will also be restricted to two-thirds of the value of the animal after the ninth year. The various trades are graded by the offices for the purposes of live stock insurance, those habitually using light vehicles being rated lower than others employing a heavier type of traffic. Chemical manufacturers are classed as a "medium" trade, a normal rate of about £7 7s. per cent. being applied. Policies for live stock insurances are reissued annually, and not renewed by receipt, as is done in other classes of insurance business; the insured is thus put to the necessity of making a fresh declaration each year as to the sound health of the animals, etc. It is a curiosity of live stock matters that the age is spoken of as being "rising" so many years, the horse "rising" another year on every January 1.

Insurance: Motor.—The principal headings under which motor insurances are divided are three, viz.: (1) Vehicles used for commercial purposes, (2) private cars, and (3) motor-cycles. Each has its own proposal and policy forms, though there is a good deal of resemblance between them. (1) For commercial vehicles (the term includes cars of a private type if used for trade purposes) there are three forms of policy in common use: (*a*) comprehensive; (*b*) third party, fire and theft; (*c*) third party only. The question which is the most acceptable depends mainly on the resources of the insured. A wealthy trading concern might regard the possible loss of a motor-car or lorry as unimportant, and so would only need third party cover. Others would wish to protect themselves also against a total loss—i.e., by fire or theft; but the great majority elect to take up comprehensive insurances, which, in addition to the risks mentioned, cover that of accidental damage. Provision is made in the policy for the cost of removal of the car after an accident and for the immediate ordering of small necessary repairs. The third party cover given under commercial motor policies bears no limitations as to amount so far as regards injuries to persons, but is subject to a limit of £10,000 for damage to property. This may, however, be increased at an additional premium. Other common extensions of the policy are:—(*a*) Compensation for loss of use of the vehicle during repair after an accident. For this the usual extra charge is 25 per cent. of the full premium for payment at £1 per diem, up to 50 per cent. of the cost of the repairs, though the charge and the benefits may be doubled. (*b*) In the case of vehicles driven by steam, the risk of damage by sparks. Provided that a "spark arrestor" is fitted, this may be insured at a premium of about 25s., with an indemnity limit of £1,000. (*c*) Insurance of goods carried in the vehicle against damage by fire or accident. Quotations for this risk vary according to the nature of the goods conveyed.

For rating purposes commercial vehicles are allocated to different classes, several of which do not concern the drug trade. Examples of these classes are:—(i) Cars of private type used for trade purposes (e.g., commercial travellers' cars); these are rated according to horse-power and value; (ii) heavy goods vehicles (i.e., those which exceed three tons in weight when fully loaded, or which draw a trailer); in a few trades an extra rate is charged, but otherwise the premiums depend on the district where the vehicle is garaged. London, Glasgow and Ireland are in the highest category, about sixty cities and towns are in the second, and the rest of Great Britain in the third; (iii) light goods vehicles; for these the trade, district, value and horse-power are all taken into account. Special rates are quoted for Ford cars, for the reason that the Ford system of standardisation causes repair work to be effected more cheaply than with other makes. Third party policies are effected at about half the comprehensive premiums, while the fire and theft risks generally cost a rate of 12s. 6d. per cent. on the value. Varying rebates in premium are allowed where more than one vehicle is insured under the same policy, but not all are on the road at any one time, and also when the insured undertakes to bear a portion of all claims or of all claims for accidental damage. In the case of cars of private type, a rebate of 10 per cent. may be allowed if the owner is the only driver. At renewal of the policy it is customary to allow a bonus of 10 per cent., or more, in respect of each car which has not given rise to a claim during the preceding year. Special rates are quoted for the insurance of large fleets of cars in the same ownership.

The completion of a proposal form is always required in motor insurance practice; in fact, it is customary to ask the new owner to sign a form where policies are transferred on the sale of a car, it being considered expedient to ensure that the new party interested should be acquainted with the terms of the contract, and also that any previous claims he may have made under motor policies should be brought to light. It is common knowledge that most insurance companies and underwriting syndicates have agreements among themselves whereby, in the event of collisions between cars insured with different parties, all questions as to the responsibility for the accidents are waived and each side bears the cost of the repairs to the cars it insures. It may be that these agreements sometimes operate to the detriment of the policy-holder in that his "no-claim bonus" may be lost through an accident for which some other driver was wholly to blame; but it should be noted, first, that an important share of the value of the insurance lies in the protection afforded against accidents due to the negligence of other drivers, and, secondly, that these agreements undoubtedly go far towards reducing the cost of claims, and therefore benefit the insuring public indirectly, since the premiums are necessarily regulated by this cost. A consideration of the insurance of private cars and private motor-cycles is hardly within the scope of this Compendium; but it may be mentioned that a private car policy is not prejudiced by the use of the car for the purpose of driving to one's place of business or for making personal business calls.

Insurance: Photographic Apparatus.—Some photographic dealers issue a special insurance policy against theft or loss of photographic apparatus. Such a policy does not, as a rule, extend to damage due to riots, scratches, denting, breaking of lenses or mechanical failures. The average premium is 6s. 6d. per annum for the first £25, and 3s. 6d. for every additional £25. The policy-holder is sometimes required to bear the first 20s. of any loss.

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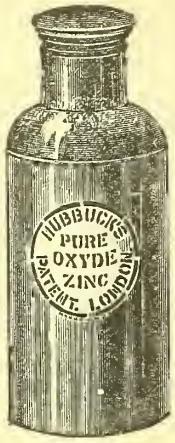

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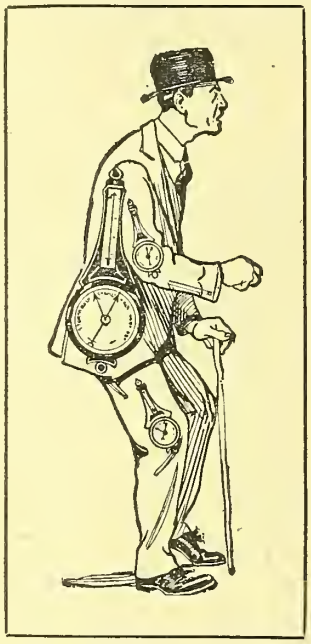

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Come in now and have your share. The demand increases daily. Be the first in your locality to have our attractive window display. Send for Bonus terms.

HYGIENIC FOOD PRODUCTS, LTD.
Cecil House, 57a Holborn Viaduct, London, E.C.

ESTABLISHED OVER 60 YEARS

PERRYS POWDERS

FOR CHILDREN'S AILMENTS

TRADE *MARK.*

Wholesale from PERRYS POWDERS, Ltd., LEEDS

After 24 Years of continuous growth and prosperity

THE Rexall

EXCLUSIVE AGENCY PLAN *remains* UNALTERED *and* UNCHANGED

REXALL is the original and the most successful Chemists' Co-partnership Enterprise in the World

If there is no Rexall Agent in your district, and you would like to know why Rexall selling methods are proving so successful, write to

UNITED DRUG COMPANY LIMITED
NOTTINGHAM

DIRECTORS:

W. C. CHURCH (*Chairman*) - - Nottingham
EDWIN THOMPSON - - - - Liverpool
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GEORGE WHITFIELD - - - Scarborough
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M. L. DANIELS - - - - - Nottingham

Registered Office: Waterway Street, Nottingham

Manager and Secretary: M. L. DANIELS

(Di-Acetoxymercuri-4-nitro-2-Cresol)

A POWERFUL MERCURIAL GERMICIDE
500 TIMES THE STRENGTH OF PHENOL

METAPHEN is packed in 4-oz. bottles of a 1 : 500 solution. Price 6/6. A solution of 1 : 5,000 is the strength most commonly employed.

TRANSPULMIN

(HOMBURG)

A sterile solution of basic quinine and camphor in ether oils. Provides the first painless method of injecting quinine in the treatment of

PNEUMONIA

BRONCHITIS, BRONCHIECTASIS. Especially useful for the prevention and treatment of pulmonary complications in Influenza. *In ampoules of 1·2 c.c.*

Literature and Clinical Sample on application.

E. H. SPICER & CO. LTD., 72 Wigmore Street, London, W.1

NIGROIDS for the Throat and Voice

Registered Trade Mark.

Sold in tins **4½d.** and **1/6** each.

WHOLESALE TERMS ON APPLICATION

Sole Makers: **FERRIS & CO. LIMITED, BRISTOL**

ESTABLISHED 1772

HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care in the greatest chemical purity by
Messrs. THOMAS & WILLIAM HENRY, 11, East Street, St. Peters, Manchester.
And is sold in Bottles, authenticated by a stamp bearing their name Trade Mark, "Henry's Calcined Magnesia."
New York: Messrs. SCHIEFFELIN & Co. William Street. PRICE 2s. 9d. Paris: Messrs. ROBERTS & Co. 5, Rue de la Paix.

Brings Repeat Orders & Merits Recommendation for Coughs, Colds, &c.

Prices

10½d. Size 8/6 doz.
1/3 Size 12/- doz.
3/- Size 27/- doz.
NET.
£2 lots Carr. Paid.

Terms

5% discount for Order of £6 and upwards.
Minimum Retail Prices
10½d. 1/3 3/-
£6 lots show a profit of 33⅓%

MANDALL & Co., Ltd., 17/23 Stepney Rd., Newcastle-on-Tyne

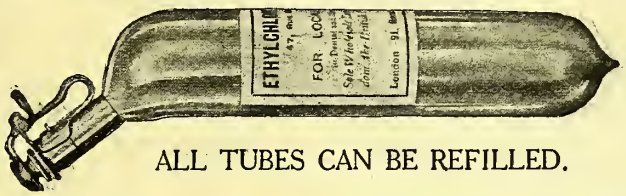
Dr. BENGUÉ'S BALSAM

FOR

RHEUMATISM, GOUT, LUMBAGO

Dr. BENGUÉ'S ETHYL-CHLORIDE

In glass and metal tubes.



ALL TUBES CAN BE REFILLED.

For LOCAL and GENERAL Anæsthesia.

PULMO (BAILLY)
FORXOL
OPOBYL
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Dr. BENGUÉ'S DRAGEES
DR. BENGUÉ'S EUPURGO
ARHEMAPECTYL
STAPHYLOTHANOL

MUTHANOL
LIPIODOL
ENTERO-ANTIGENS
NEOPANCARPINE

Write for Price Lists to :

BENGUÉ & CO., LTD., *Manufacturing Chemists,*
24 FITZROY STREET, LONDON, W.1

Tablets

Enquiries are invited for

ASPIRIN AND CASCARA TABLETS

IN BULK OR PACKED.

A Customer writes :—"Re Aspirin Tablets. Your sample was one of the best we have ever had, we anticipate doing good business with you if you can maintain that quality."—WE CAN, AND MEAN TO!!

LET US QUOTE YOU.

CASTLE HUSKISSON, LTD.

Manufacturing Chemists,

Swinton Works, Moon St., Islington, N.1

ESTAB. 1768.

Private formulæ Pills and Tablets carefully and accurately prepared at lowest possible prices.

Pills

It will pay you to stock them!

When the public demand goods bearing a specified name the wide-awake retailer prepares to meet that demand and so reap the benefits which follow.

IGLODINE is fast becoming a household word, and the public, through satisfaction which comes after trial, are demanding **IGLODINE PREPARATIONS.** Are you the retailer who is preparing to meet the demand?

·Iglodine·

Write to-day for full particulars to :

THE IGLODINE CO., LTD. - Newcastle-on-Tyne.

DR. BOW'S
LINIMENT.
Prepared by his Great-Great-Grandson

(J. D. BOW, Managing Director.)

RETAIL 3/-

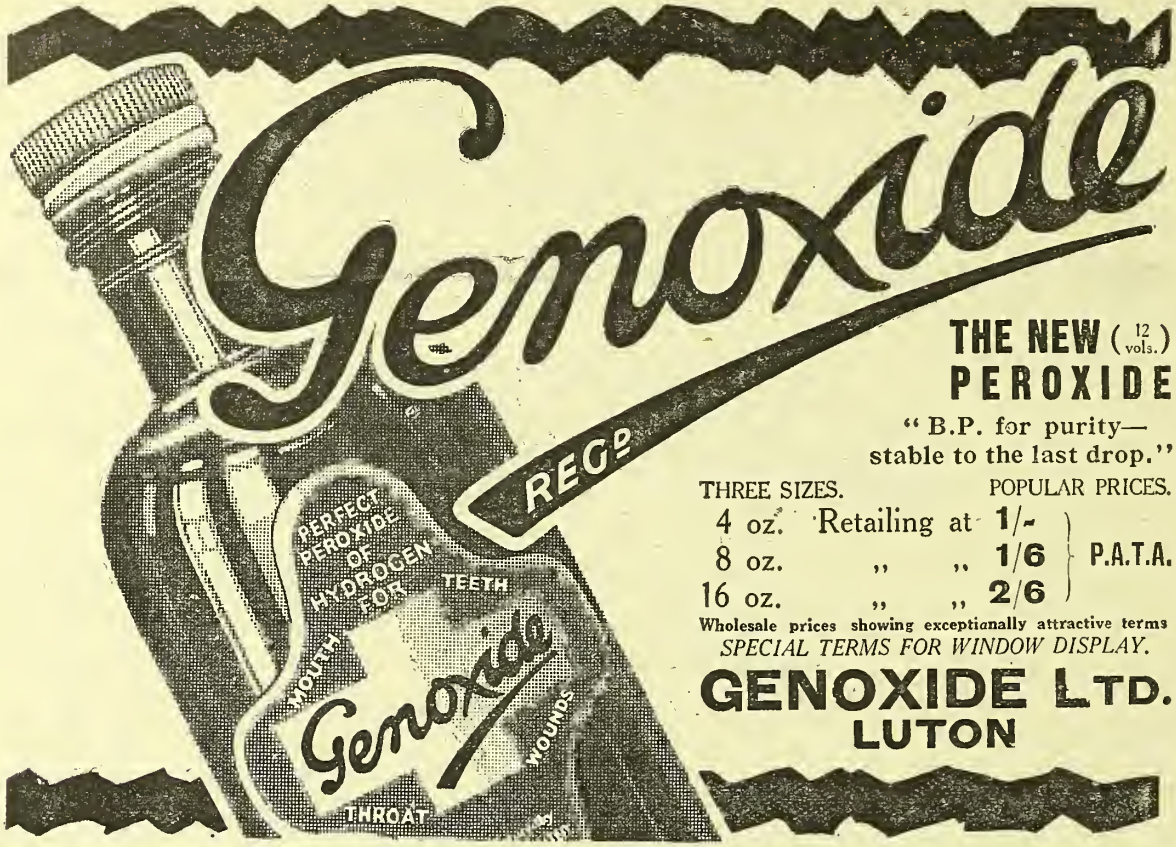
The Gothic window and the name "DR. BOW'S LINIMENT" are Registered Trade Marks and appear on every bottle. Anyone using the name or any similar name is liable to be proceeded against.

The above label in Blue appears on outside wrapping.

DR. BOW'S LINIMENT, Ltd.

Works—7 South Gray St., Edinburgh.

Registered Office—3, 4 & 5 Queen St., Cheapside, London, E.C.4



THE NEW (12 vols.) PEROXIDE

"B.P. for purity—stable to the last drop."

THREE SIZES.		POPULAR PRICES.	
4 oz.	Retailing at	1/-	P.A.T.A.
8 oz.	,, ,,	1/6	
16 oz.	,, ,,	2/6	

Wholesale prices showing exceptionally attractive terms

SPECIAL TERMS FOR WINDOW DISPLAY.

GENOXIDE LTD. LUTON

Introducing the new 1/3 size BELTONA

For Rheumatoid Arthritis, Rheumatism, Lumbago, Neuritis, Gout, Sciatica, Colitis, Laryngitis, and all Inflammatory conditions. You can recommend it with confidence, as it is, without any doubt, the most wonderful lotion discovered for drawing away inflammation in any part of the body and gives relief in a few minutes. It has extraordinary penetrative properties and acts as a solvent on Uric Acid Deposits.

The following unsolicited Testimonial is one of many received last month :—

43 Cornwall Gardens, LONDON, S.W.7.
February 17th, 1927.

Dear Sirs,

I have reproached myself in not having written before, as I intended doing, to tell you of the splendid results your "Beltona" has achieved with me. I have never had any real trouble with the ARTHRITIC INFLAMMATION and PAIN in my neck since I started your lotion. I really am exceedingly grateful to you and try to show my appreciation by recommending it, not only in this country, but abroad. My experience with "Beltona" was—it did act at once, in a way that I never anticipated. Thanking you again, for I am truly grateful,

You have my permission to publish my testimonial.

Yours faithfully, BEATRIX HOLMES.

To introduce the new 1/3 Trial Size, we are giving 1 Dozen Free with every order for the following Display Parcel:

1 dozen 3/- size	£1	7	0
½ ,, 5/- size	1	2	6
	2	9	6
5% dis. cash with order		2	6
	£2	7	0

SELLS FOR

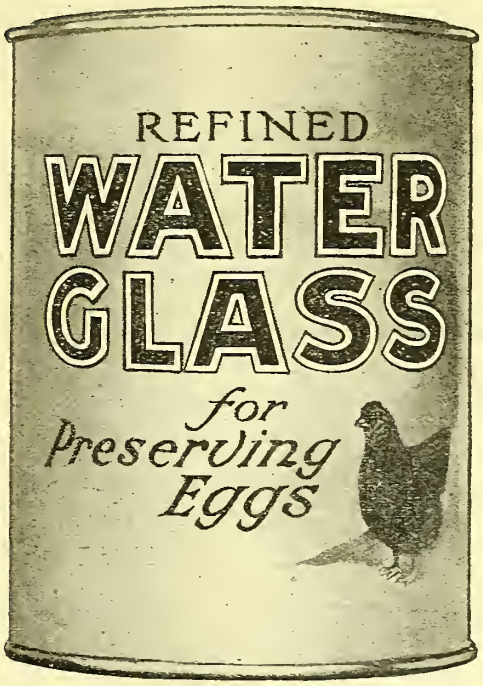
1 Dozen 3/- size	£1	16	0
½ ,, 5/- ,,	1	10	0
1 ,, 1/3 ,, Bonus		15	0
	4	1	0

Send to-day to

BELTONA LTD., HIGH STREET, HODDESDON, HERTS.

IRISH FREE STATE supplies can be obtained from VICTOR E. HANNA, M.P.S.I., 69-70 LOWER MOUNT STREET, MERRION SQUARE, DUBLIN.

AUSTRALIAN supplies from Mr. C. E. BERGLIN, 419 UPPER EDWARD STREET, BRISBANE.



1927 SEASON.

Once again, if you want to be sure of

-- finest packs (own name if desired) **--highest quality**

-- keenest prices

-- tested, non-leaking TINS (NOT cardboard "containers")

let GOODALL'S QUOTE.

HIGH TRADE PRAISE FOR OUR 1927 DISPLAY MATERIAL

By one post this week arrived over a score of letters and cards of thanks for our Waterglass display cards.

Here are some extracts:

"I would like to congratulate you on this fine production; it does you great credit and will prove an ornament to the window, apart from its selling powers." (Bradford.)

"It will be a good silent salesman for my window next week, after which I shall pass it on to my other branch for similar service." (Durham County.)

"It should prove a great selling aid." (Wrexham.)

"We acknowledge safe receipt of your Waterglass window display, and you may rest assured same shall receive the judicious use which its excellence deserves." (Preston.)

BUY GOODALL'S — and get the display material that sells the goods.

GOODALL, BACKHOUSE & CO. :: LEEDS

Compound Syrup of Hypophosphites

TRADE **"FELLOWS"** MARK

Compound Syrup of Hypophosphites "FELLOWS," in addition to being in constant and increasing demand, adds distinction to a chemist's show window. It is a symbol of progressiveness and reliability.

Tablets Laxative "FELLOWS"

"The Tablet With a Pedigree"

IN TWO SIZES, NAMELY:

LARGE BOTTLES (Containing 100 Tablets) — SMALL BOTTLES (Containing 40 Tablets)

Fellows Medical Manufacturing Co., Inc.

26 Christopher Street — **New York City, N. Y.**

LABORATORIES:
Mexico City, Mexico; Montreal, Canada; Paris, France; Milan, Italy; Barcelona, Spain; Berlin, Germany.

THE SEASON'S ADVERTISING CAMPAIGN

Lakerol

The World-Famous Bronchial Pastilles.

The sales of Lakerol are increasiug every day. The public know the valuc of Lakerol and they will be still further convinced by the huge advertising campaigu now in progress.

ADVERTISING THAT MAKES YOUR PROFITS BIGGER

The principal London Dailies and the morning and evening journals in most provincial towns are being used to advertise Lakerol. Space is also being used on the Tubes and Omnibuses. Are you ready to meet the demand?

SELL AT **1/3** PER TIN

TRADE TERMS 11/3 per dozen—Carriage Paid

Packing free. 2½% for cash with order of 6 doz., otherwise net cash in 14 days. Bonus of 1 doz. with each ½ gross, and bonus of 2 tins with order of 2 doz. if window or counter display given for 14 days.

Pastilles Ltd., 124 High St., Shoreditch, London, E.1.

LOZENGES PASTILLES

LIQUORICE & MENTHOL

Glossettes REGD.

Compressed Tablets

PACKED OR IN BULK, FOR WHOLESALE, — RETAIL AND EXPORT TRADES. —

ERNEST JACKSON & CO., Ltd.

London Office: Plantain Place, Crosby Row, Boro', S.E.1

Works: CREDITON, Devon.

'Phones: Hop 2668 and Crediton 10.

POPULAR ucal RELIABLE
The Sign of Reliability

To each Saint his candle

What better than apply this old axiom to "Ucal"—honour where honour is due.

For over seventeen years "Ucal" has been steadily fighting the chain store system—working itself up from a small band of six young but enthusiastic Chemists, to what is now a happy family of over 5,000 Qualified Chemists — all striving to safeguard their interests by supporting "Ucal."

The modern factory of the United Chemists' Association, Limited, is yours—ready to give Service in every detail.

The list of Specialities is a long one, but all are guaranteed and issued under strict analytical control. We protect the Price, protect the Sale, give the fullest margin of Profit :—come and join us—remember there are 5,000 Chemists already supporting "Ucal" and "The Beaten Track is the Safe One."

United Chemists' Association

LIMITED ('Phone 3021)

CHELTENHAM

and 4 and 6 KEITH GROVE, LONDON, W.12
Telephone : "RIVERSIDE" 3762

SPRING

WE WELCOME YOUR ENQUIRIES

FOR

EFFERVESCING SALINE (granular or fine powder) in bulk or packed in decorated tins, round and square, and bottles with various artistic wrappers.

CITRATE OF MAGNESIA Bulk, or packed in Kali bottles. Choice of various labels.

SEIDLITZ POWDERS Guaranteed hand weighed, and made from Howard's Seidlitz only.

PRO-SPA-QUA (EFFERVESCING) **CARLSBAD POWDER**

Contains no sugar. The speciality to push for gout, rheumatism, etc. Bold packing.

Prices, Samples and Labels on application.

ROBERT BLACKIE

(Sole Manufacturer and Proprietor of the World-famed "SPUN" OINTMENTS),

Telephone: HOP 2415. **SHEN WORKS, TOWER BRIDGE RD., LONDON, S.E.1** Telegrams: "USHENSPUNA" LONDON.

Petrolagar

(trade mark)

FREE TO THE RETAIL CHEMIST.

Until further notice we will allow you **ONE BOTTLE** of **PETROLAGAR FREE** with each single order for **ONE DOZEN** ordered from your wholesaler.

8½% MORE PROFIT FOR YOU.

Petrolagar is an ethical product which never has been advertised to the public.

We make this free offer as a special inducement to the retail chemists to carry ample stocks to meet the demand of the doctors with whom we are carrying on an intensive ethical advertising and detailing campaign for Petrolagar.

You may have **ONE 8-oz. BOTTLE FREE** with 1 doz. 8-oz. size, any assortment,
or
ONE 16-oz. BOTTLE FREE with 1 doz. 16-oz. size, any assortment
(not a mixed dozen of large and small).

ORDER PETROLAGAR IN DOZEN LOTS FROM YOUR WHOLESALER.

DESHELL LABORATORIES LTD., 1-3 BRIXTON ROAD, LONDON, S.W.9.
Phone: BRIXTON 1188.

The Public Insist on having Dr. Cassell's Tablets

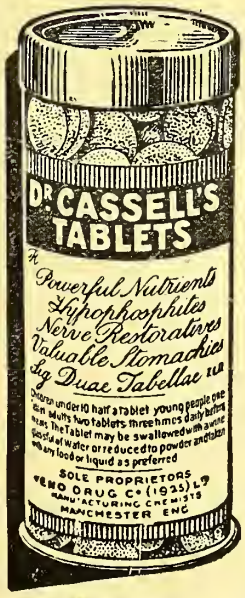
"I have wondered why people were so furious when we were sold out"

The above statement was made by a retailer selling Dr. Cassell's Tablets, and it was not until he had tested the wonderful tonic properties for himself that he discovered why they have such a grip on public favour.

The consistency of our advertising and sales propaganda is creating thousands of new customers every day.

Their great medicinal value ensures satisfied and repeat customers.

It pays to display Dr. Cassell's Tablets—and experience tells us you require a good stock when displaying. Attract to your shop the new customer we are creating.



Thousands of people are asking for Dr. Cassell's Tablets. Don't disappoint your customers and lose profit but—

VENO DRUG Co. (1925) Ltd.

Manufacturing Chemists,

CHESTER RD., MANCHESTER

Send your order in to-day

Petroleum Jelly

White, Yellow, Amber, & Ruby Red, for all Pharmaceutical and Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.

Liverpool - London - Manchester - Birmingham - Leeds

CERESINE WAX

REGISTERED FOR OUR WELL-KNOWN BRANDS OF CERESINE WAXES.

WHITE BLEACHED CARNAUBA WAX VARIOUS GRADES AND RESIDUE
BEESWAX WHITE, YELLOW AND COMPOSITION PARAFFIN WAX ALL MELTING POINTS
OZOKERITE WAX ALL GRADES

POTH, HILLE & CO., LTD.,

6 Lloyd's Avenue, London, E.C.3. *Works at Stratford, E.*

PETROLEUM JELLY

Best qualities Yellow and White B.P., Red Veterinary and Green.

GOUGH, KIDSTON & CO.

43/45 Gt. Tower Street, London, E.C. 3

Tel. No.: Royal 2666 & 2667.
Tel. Add.: Kidstonism.

Also GUM ARABIC and TRAGACANTH BEESWAX and JAPAN WAX.

Works: Bermondsey.
Tel. No.: Hop. 2029.

THE STANDARD OF PURITY

STERNS

LIQUID PARAFFIN B.P.

Colourless, Tasteless, Odourless.
All Specific Gravities.

PETROLEUM JELLIES B.P.

White, Lemon, Yellow, Amber, Red, Green.

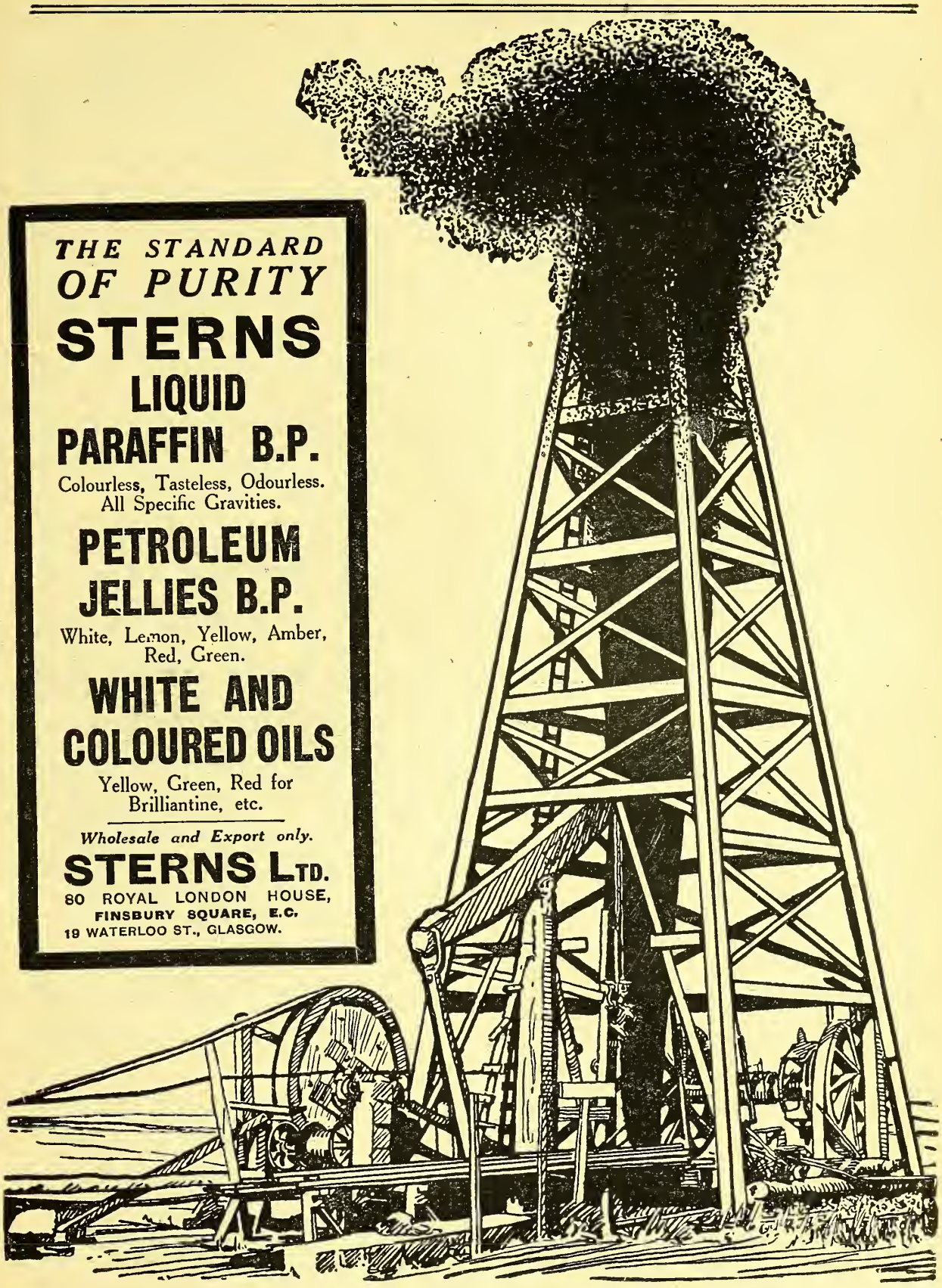
WHITE AND COLOURED OILS

Yellow, Green, Red for Brilliantine, etc.

Wholesale and Export only.

STERNS LTD.

80 ROYAL LONDON HOUSE,
FINSBURY SQUARE, E.C.
19 WATERLOO ST., GLASGOW.



ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE PRODUCED

IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.

Carnwath Road, Fulham, London, S.W.6

Telephone: Putney 1153 and 1154. WHO INVITE ENQUIRIES. Telegrams: "Batapo, Walgreen, London."

MAWSON'S

OPTIMUS FILTERS

The most efficient household filter. Made in different sizes in earthenware, glass and tourist patterns. Stocked by leading wholesalers.

Write for terms to the manufacturers.

MAWSON FILTER COMPANY
(MAWSON & PROCTOR, LTD.)
NEWCASTLE-ON-TYNE.

For Status Inquiries, Collection of Accounts, & Investigations, Business Transfers, Stocktaking and Valuations,

Join The Association of Manufacturing Chemists, Ltd.

which is THE MEDIUM for the TRADE.

PROSPECTUS ON APPLICATION

PARKIN S. BOOTH.

Accountant to the Association of Manufacturing Chemists, Ltd. (for the Protection of the Drug, Chemical and Allied Trades)
26/28 KIMBERLEY HOUSE, HOLBORN VIADUCT, E.C.
Telephone: City 6942.
Or 35, 36 & 37 EXCHANGE CHAMBERS, 2 BIXTETH ST., LIVERPOOL. Telephone: Central 4330 (4 lines.)

English Filter

POSTLIP

Papers

SQUARES
CIRCLES
FOLDED
ROLLS

WHITE
GREY
PLAIN
ANTIQUE
EMBOSSED
CRINKLED

SAMPLES FREE

Evans, Adlard & Co. Ltd.

Postlip Mills, Winchcombe, Cheltenham.

Telephones: HOLBORN 5503 & 4731

Telegrams: FORSHAPCO, WESTCENT, LONDON.

FORD, SHAPLAND & Co. Ltd.

LABEL & GENERAL PRINTERS

FINE ART SHOWCARDS, CARTONS, ENVELOPES FOR SHAMPOO POWDERS, CORN SILK, ETC.

"Sol-Vo" *Sanitary Paper in Rolls & Packets.*

AGENTS FOR THE REGISTRATION OF TRADE MARKS.

GT. TURNSTILE
HIGH HOLBORN
LONDON, W.C.1

Telephone—SLOANE 3461 (7 lines). Telegrams—"Dicotto, Sowest, London."

W. B. DICK & CO., LTD.

26 Grosvenor Gardens, London, S.W.1

Works: LONDON, LIVERPOOL, GLASGOW

PARAFFINUM LIQUIDUM B.P.

S.G. 890/5. Guaranteed to remain bright at 0°C.

White and Half White Oils

B.P. White and Yellow Petroleum Jellies

QUOTATIONS & SAMPLES will be sent on application.

PETROLEUM JELLY

("SALVO PETROLIA")

BRAND

THE PERFECTION OF PETROLEUM JELLY

MANUFACTURED SOLELY BY

THE DEE OIL Co. LD.

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LIVERPOOL

TELEPHONE:- CENTRAL 3859 TELEGRAMS:- "CESTRIAN"

LONDON OFFICE

11 POULTRY, CHEAPSIDE, E.C.2. PHONE: CITY 8455

PACKED IN BARRELS, KEGS OR SMALLER PACKAGES IF DESIRED.

OTHER GRADES OF PETROLEUM JELLIES, WHITE BASES ETC.

WHITE OILS B.P. & Technical Qualities

SAMPLES & PRICES ON APPLICATION

OLEUM DEELINÆ (DEE OIL)

THE UNFAILING CURE FOR ECZEMA

Do you study Quality as well as Price?

IF SO, SEND FOR OUR LATEST PRICE LIST OF

Russian Medicinal Paraffin, Galenicals and Pharmaceutical Chemicals

REDDGRAVE BUTLER & CO., LTD.

Forest Lane, Stratford, E.15

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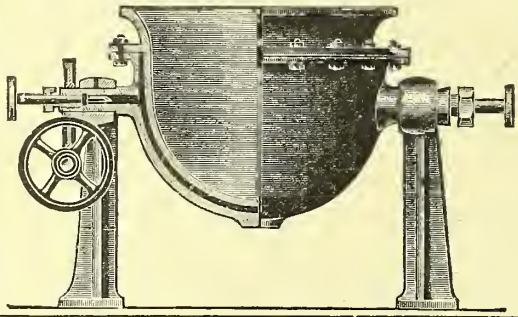


Suitable for all Temperatures and Pressures

DANTO ROGEAT & CIE,

33-39 Chemin des Culattes, LYONS, France.

Suppliers before the war to the largest European Manufacturers of Chemical Products.

Write for Price List to Sole Representative:

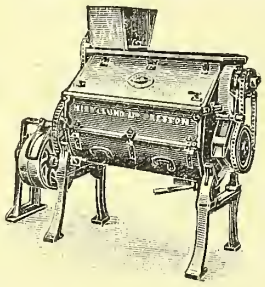
H. SLOOG, 45 Great Marlborough Street, LONDON, W.1.

Telep.: Regent 2460.

"ATLAS" PATENT

SIFTERS & MIXERS

Combined or Separate Machine, for hand or power.



Fitted with all our latest improvements.

BALL and PEBBLE GRINDING MILLS.

Various Sizes.

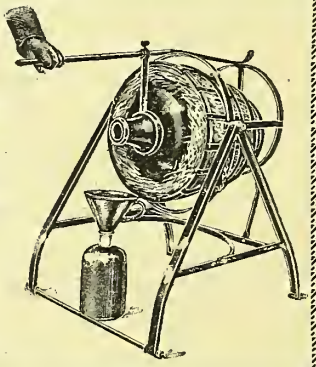
HIND & LUND,
LIMITED,
ATLAS WORKS,
PRESTON.

Established 1791.

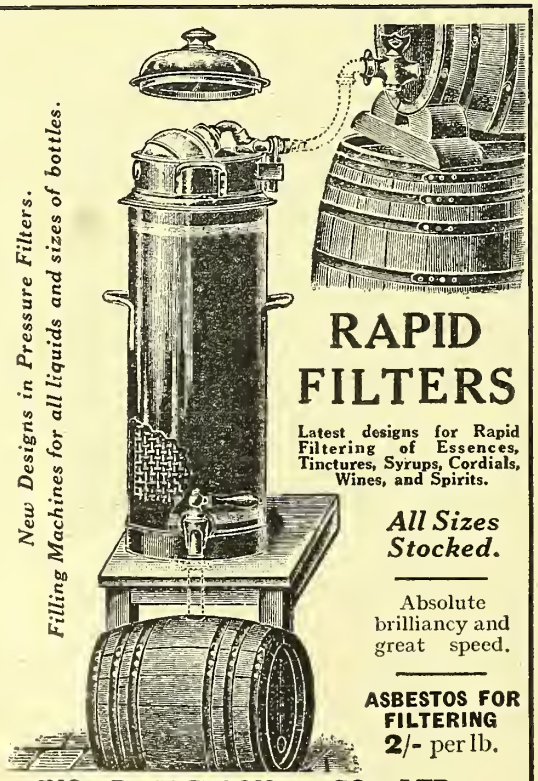
CARBOY STAND AND TILTER.

For drawing off small quantities of acids, etc. from Carboys, with ease and safety.

The Carboy can be tipped to any position with one hand.



R. & H. LEIGH & SONS,
LIMITED.
Carboy Hamper Manufacturers,
BOLTON.



New Designs in Pressure Filters.
Filling Machines for all liquids and sizes of bottles.

RAPID FILTERS

Latest designs for Rapid Filtering of Essences, Tinctures, Syrups, Cordials, Wines, and Spirits.

All Sizes Stocked.

Absolute brilliancy and great speed.

ASBESTOS FOR FILTERING
2/- per lb.

JNO. P. JACKSON & CO., LTD.
POWNALL SQUARE, LIVERPOOL

WE SPECIALISE IN

OVERALLS

FOR

ALL TRADES AND PROFESSIONS

(EVERY GARMENT GUARANTEED)

White Drill Jackets	from	**6/6**
White Drill Coats	„	**8/11**
Khaki Drill Coats	„	**10/6**
Black Drill Coats	„	**12/6**
Grey Drill Coats	„	**12/6**

LARGE VARIETY of STYLES and SIZES Always in Stock for Immediate Wear.

ANY STYLE OF GARMENT MADE TO ORDER.

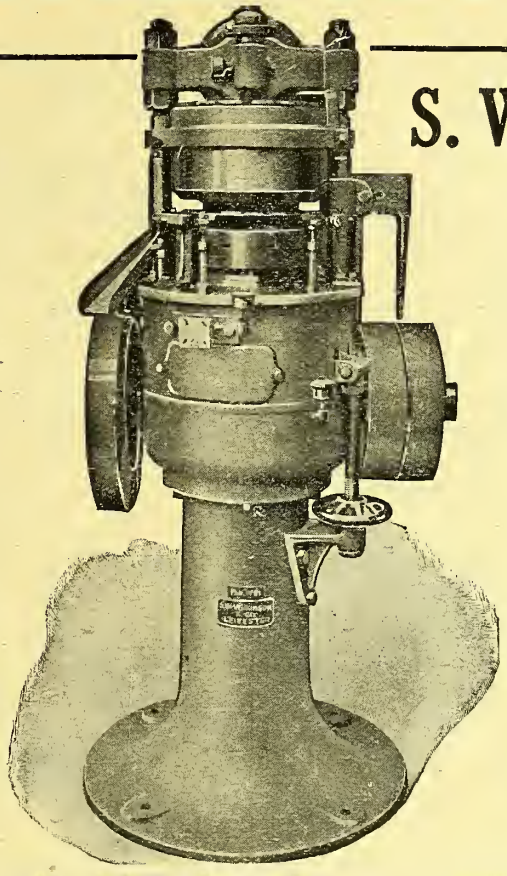
Illustrated Catalogue Free on request.

BREWSTERS

(FORMERLY PECKS)

53 & 55 BYROM STREET, LIVERPOOL.

SPECIAL QUOTATIONS for LARGE QUANTITIES



S. W. WILKINSON & CO.

WESTERN ROAD, LEICESTER.

Rotary Tablet Machines

These Machines are now made in 4 sizes:

12-Punch Ordinary for Tablets from $\frac{3}{8}''$ to $\frac{7}{8}''$ diameter. Output 400 per min.

20-Punch Ordinary for Tablets from $\frac{1}{4}''$ to $\frac{1}{2}''$ diameter. Output 700 per min.

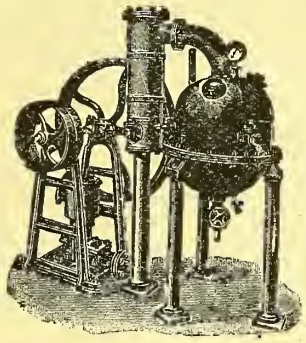
12-Punch Heavy for thick Tablets and Blocks 1″ diameter. Output 250 per min.

18-Punch Heavy for thick Tablets and Blocks 1″ diameter. Output 400 per min.

LISTS ON APPLICATION.

SINGLE punch machines made in 5 sizes for tablets from $\frac{1}{8}''$ to $1\frac{1}{2}''$ diameter, also lozenges.

MACHINES FOR BATH SALT TABLETS



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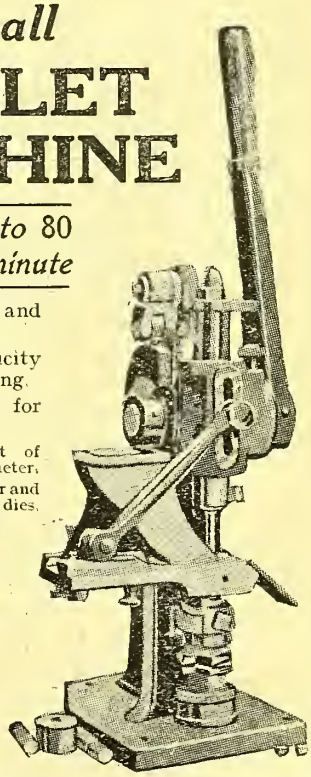

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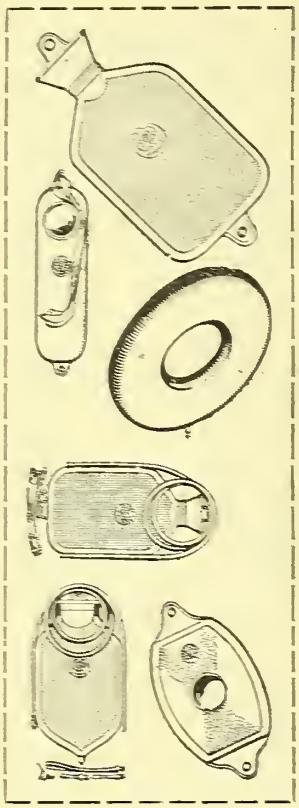

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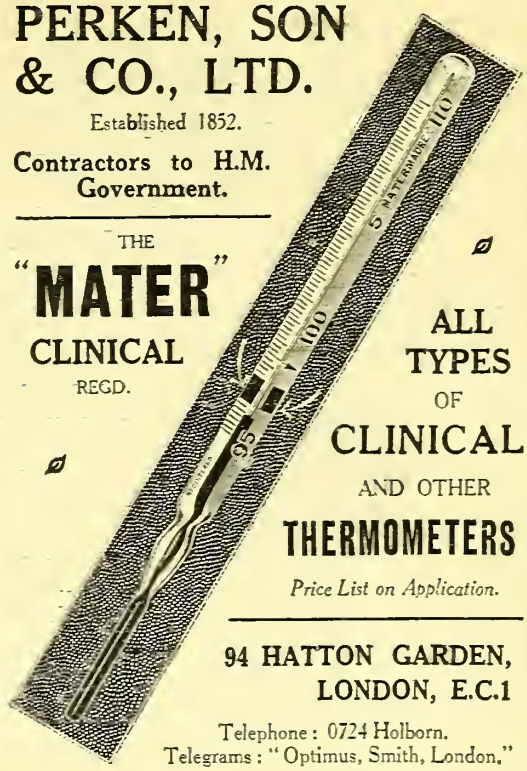

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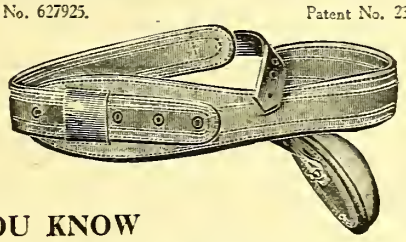

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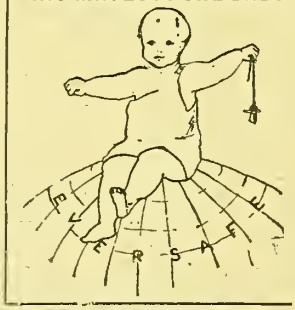

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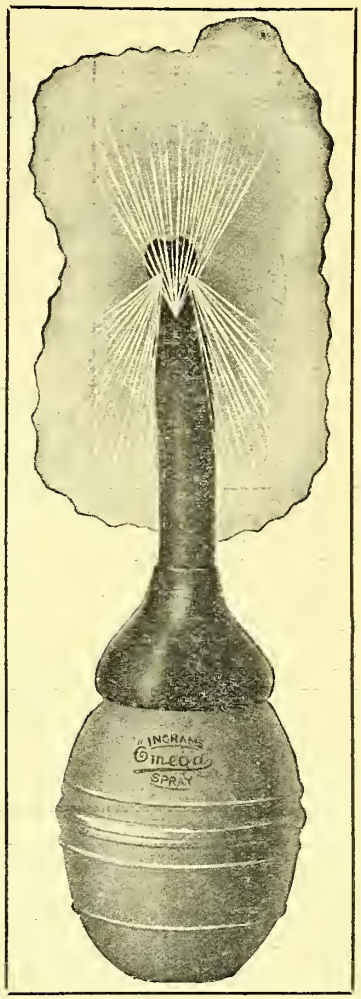

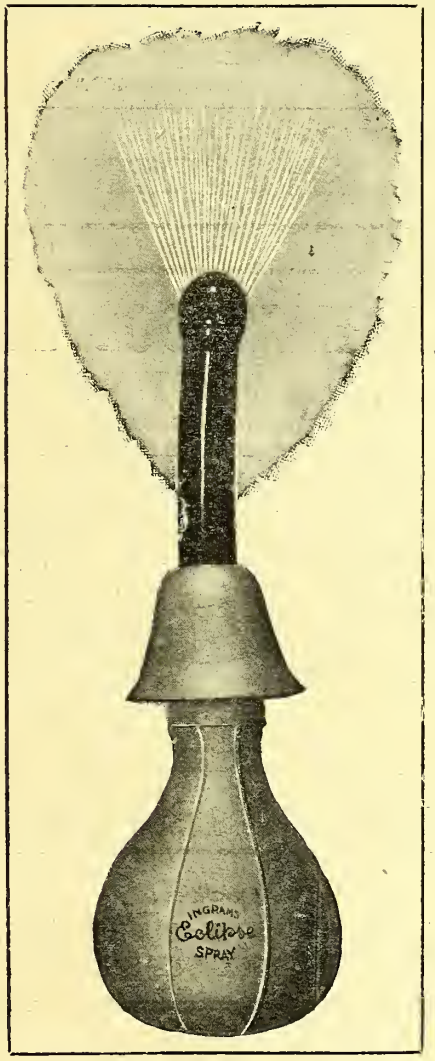

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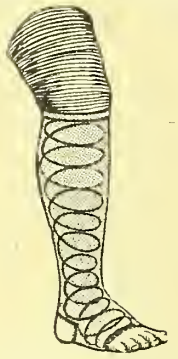

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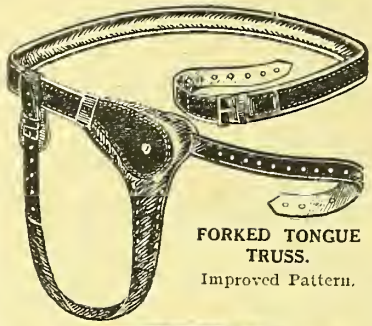

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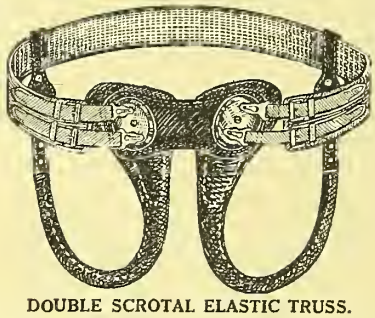

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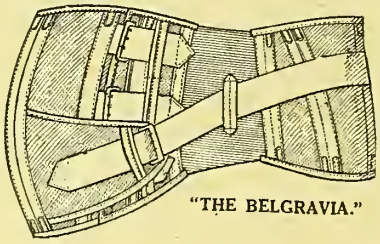

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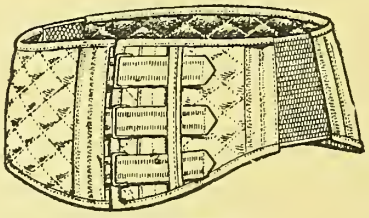

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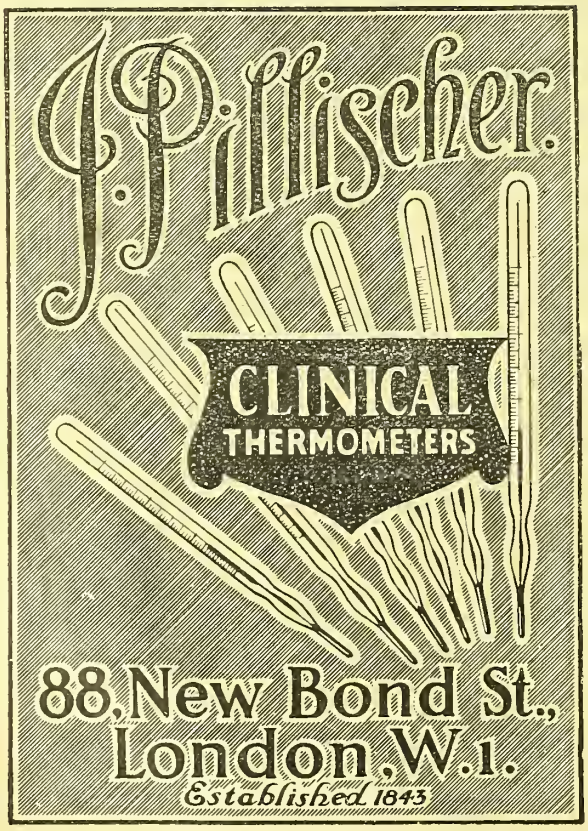

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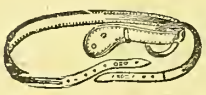

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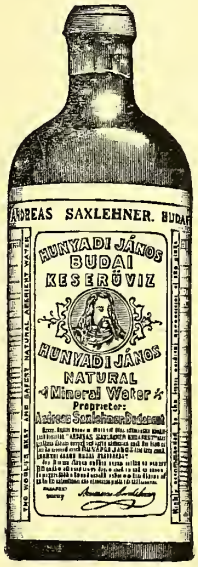

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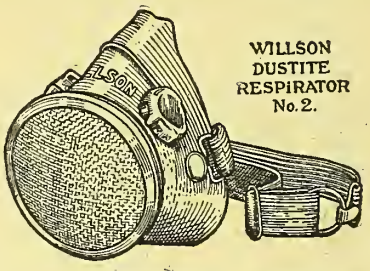

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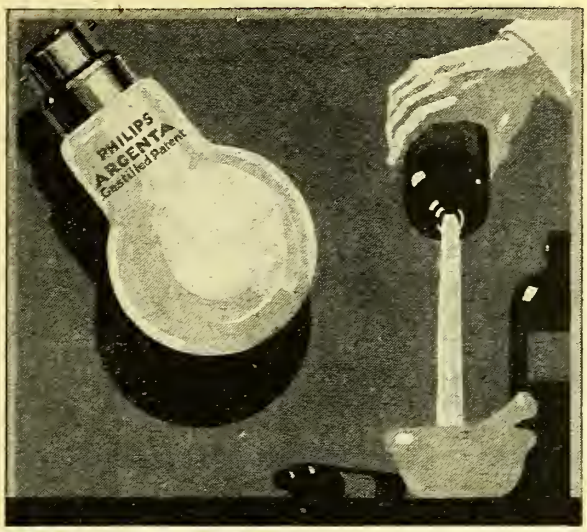

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A Gardner "Rapid" sifter and mixer will thoroughly sift and mix ½ oz. of one ingredient with a 30-lb. mixture of dry powders **at one operation,** and "every pinch of the whole will show its presence"—a customer's statement.

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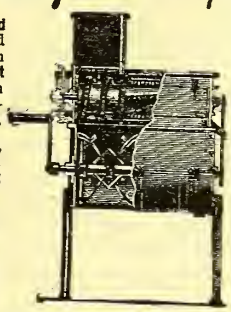

WM. GARDNER & SONS
(Gloucester) LTD.
Bristol Road, GLOUCESTER.
'Phone 117. *'Grams: "Gardner," Gloucester*

The Sincerest Form of Flattery is being offered to

VISKAP
BOTTLE CAPS

as supplied by us for over 20 years, but—the GENUINE cannot be beaten.

SELF-FIXING, HERMETIC,
TRANSPARENT, OPAQUE, COLOURED, WHITE.
IMMEDIATE DELIVERY

from the Original Patentees and Manufacturers:
VISCOSE DEVT. CO., LTD., BROMLEY, KENT.

BOTTLES
OF EVERY DESCRIPTION
Wholesale & Export Only

We make good
BOTTLES
—hand or machine made.

Large and well-organised works enable us to meet your immediate requirements for:—

DISPENSING, EMULSION, COUGH MIXTURE, SAUCE, EMBROCATION, FEEDING BOTTLES, &c.

Our prices are right—and our Bottles are British manufacture.

Make us your standard Bottle suppliers—we can meet your every need.

LAX & SHAW
LIMITED
ALBERT GLASS WORKS
HUNSLET, LEEDS.

Belinda Glass Works, Hunslet. Clarence Glass Wks. Hunslet.
Telegrams "Feeders Leeds" Telephones 27047, 23080 Leeds.

If you mean business—

Venesta Collapsible Tubes mean better business for you

YOU, the trade, and the public alike benefit from Venesta Collapsible Tubes.

FOR YOU—a large margin of profit, because, quality for quality, Venesta Collapsible Tubes are cheaper than tins, jars, and other collapsible tubes.

FOR THE TRADE—quicker turnover, because Venesta Collapsible Tubes can be printed with the most attractive designs and colours possible at low cost.

FOR THE PUBLIC—more hygienic and less wasteful than other forms of containers. No smearing a finger round, or dipping a brush in, as in tins and jars. No more need ever be squeezed out than is required.

Venesta Limited also supply bottle sprinklers, lip-salve cases, and all kinds of metal foils, printed, embossed, etc., in sheets or reels.

Pack your Products in

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Collapsible Tubes and Metal Foils

Full particulars, prices and samples gladly sent on application to

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'Phone: ROYAL 4200.

Send for Particulars

Ask for "PAZO"

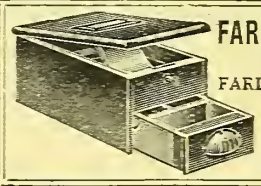
PILL BOXES

The most convenient and secure Pill Box obtainable.

NO LOOSE BOTTOMS

Samples and Prices on application

The "PAZO" CO., Oldbury



FARLEY'S MIDGET CASH TILLS
(Send for List C.1)

FARLEY'S **SHOPFITTERS**

New and Second Hand

227 Old Street, London, E.C.2

DISTILLED WATER

Brown's Stills are perfectly automatic. Can be run night and day without attention. Patented in U.K. and Continental Countries.

Extraordinarily efficient and economical. Made for gas, steam, oil or coke fire heating.

Full particulars and prices free on application

BROWN & SON,
Alembic Works,
Wedmore Street, Holloway, N.19

PHOSFERINE

New Window Display Conditions

Monthly Account. *Carriage Paid.*

For a small Central Window Display of not less than 14 days and an order for £5 worth of Phosferine we allow a bonus of 10/6, on a £2 10 0 order 5/3.

This shows a net profit on the transaction to the Chemist of 35%, besides attracting the passer-by to the window and considerably augmenting sales generally.

Should a £5 or £2 10 0 parcel not be required, any smaller quantity will be forwarded carriage paid, and can, if desired, be regarded as part of the £5 or £2 10 0 order. On completion of the order and a notification that the display is in progress the bonus will be allowed.

The above conditions apply only to the United Kingdom.

EXAMPLE.

		COST	SELLS FOR
3½ dozen 1/3 size at 12/- net	....	£2 2 0	£2 12 6
2 „ 3/- „ at 30/- „	....	3 0 0	3 12 0
		5 2 0	
Less 10/6 for Window Show	....	10 6	
		£4 11 6	£6 4 6

Showing a Net Profit of £1 13 0 on an outlay of £4 11 6.

Window Display Material Free and Carriage Paid.

WHOLESALE PRICES OF PHOSFERINE.

Carriage Paid.		*Monthly Account.*
1/3 size	....	12/- per doz. net.
3/- „	....	30/- „ „
5/- „	....	48/6 „ „
12/- „	....	114/- „ „

PROTECTED PRICES.

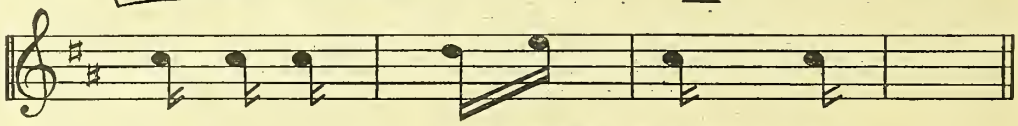
Phosferine and all of our Proprietary Medicines are supplied on the condition that they are not retailed in the United Kingdom under the following prices—viz., 1/3, 3/-, 5/-, and 12/-.

ASHTON & PARSONS, Ltd., Ludgate Hill, LONDON, E.C.4.

Telephone No.: CITY 8733. Telegraphic Address: "PHOSFERINE, CENT, LONDON."

IMPORTANT.—Every care is used in corking and packing Phosferine, but occasionally a leaky bottle will pass undetected. Any leaky or faulty bottle should be returned to Ashton & Parsons, Ltd., Ludgate Hill, London, E.C.4, when a fresh supply will be sent and postage refunded.

LET'S ALL GO TO M·R'S HOUSE—



AND GET OUR GOODS ON TIME!

MAY, ROBERTS & Co., LTD.,

7-13, CLERKENWELL ROAD, E.C.1.

P. O. BOX 157

Also at **DUBLIN, LIVERPOOL and PLYMOUTH.**

[98/30]

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C.4

MARCH 26, 1927

This Supplement is inserted in every copy of The Chemist & Druggist.

THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case the name and full postal address should be written on

Post Office Wrappers, Stamped One Penny, to ensure prompt delivery.

Loose stamps will not be accepted.

CLOSING FOR PRESS.

MUST REACH US NOT LATER THAN **FIRST POST THURSDAY MORNING.**

ALL ADVERTISEMENTS INTENDED FOR INSERTION IN THIS SUPPLEMENT

CHEMISTS' TRANSFERS.

Messrs. Orridge & Co., 56 Ludgate Hill, E.C.

Telephone No.: CITY 2283.

May be consulted at their Offices on matters of Sale, Purchase and Valuation

1.—EALING (Near).—Cash Retail Business; own established Proprietaries and Kodak Agency; returns £2,606; net profit £635; small double-fronted shop; value of stock and fixtures about £1,000; house suplet to cover whole rent; terms, one year's net profit for lease and goodwill, plus valuation of stock and fixtures.

2.—FINSBURY PARK (Near).—For immediate Disposal, through ill-health, medium-class Retail and N.H.I. Dispensing Business; returns about £2,400 at very good prices; double-fronted corner shop, with good working stock; ample living accommodation; garden; long lease; moderate rental; price to be arranged.

3.—MIDDLESEX (G.W.R. Main Line).—Old-established Business; returns £2,100, with scope for increase under more energetic management; double-fronted shop, well fitted and stocked; small house; price £1,500, part payment considered.

4.—FOREST GATE.—Cash Retail, with N.H.I. Dispensing; returns last year £1,527; net profit £456; double-fronted corner shop; estimated value of stock and fixtures £820; very good house and garden; moderate rental; price £1,150.

5.—DULWICH (Near Station).—Middle-class Retail Business, with Kodak Agency; returns, under management, £1,300, with scope for increase; single-fronted, lock-up shop with room behind; lease 18 years to run; rent £52 per annum inclusive; offers invited

6.—HOME COUNTY (Death Vacancy).—General Retail Business in good-class town near London; returns £1,200 to £1,400; double-fronted shop; executors would prefer to sell premises, but would consider granting a lease; very good house and garden; price to be arranged.

7.—ILFORD.—Cash Retail Business; returns, under female management, £1,000; single-fronted shop with small house; rent £65; rates £16; held on lease, with option to purchase premises; price £700; ill-health cause of sale.

8.—LANCASHIRE (Death Vacancy).—High-class Retail and Dispensing in select district; returns nearly £3,000; the premises may be purchased for £1,500, or new lease will be granted at a rental of £120 per annum; price of business £1,700.

9.—SOUTHERN COUNTY.—General Retail Business, with Kodak and Ucal Agencies; fine corner premises in main road; returns £2,500, with net profit £600 to £700; large house, which could be partly sublet; new lease will be granted, or Freehold may be purchased; price of business £2,050; stock alone worth £1,000.

10.—WARWICKSHIRE.—Cash Retail Business, with Photographic; returns, last year, under management, £1,153; scope for large increase in the hands of an energetic man; rent £60; 13½ years' lease; living accommodation; stock and fixtures estimated at £600; price £750, or near offer.

11.—HOME COUNTY.—Old-established Business, neglected on account of Vendor's ill-health; returns now between £1,500 and £1,600 per annum; good working stock; new lease will be granted; rent £40; no serious opposition; price £1,000, or valuation terms entertained.

12.—SOUTH COAST (Well-known Health Resort).—Old-established Retail and Dispensing, which has been run purely as a Chemist business, with no side-lines; large scope for Photographic; returns £1,900; net profit £400; large house; long lease; further details on application.

13.—NEW BRIGHTON (Near).—General Retail, Dispensing and Photographic Business; returns about £1,400, increasing; net profit £357; approximate value of stock and fixtures £650; held on lease; net rent £60 per annum; good position in main road; price £900.

14.—BOURNEMOUTH (Near).—Cash Retail Business; returns about £2,000, increasing; net profit £400; books audited; modern double-fronted shop; held on lease; price about £1,250.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes confusion and loss.

Valuations for Stocktaking

Messrs. O. & Co. are prepared to undertake these essential duties and make **Special Terms** for such service.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.4

The Association of Mnfg. Chemists

— LIMITED —

Business Agency Transfer & Valuation Department

Head Office—

Kimberley House, Holborn Viaduct, London, E.C.1 (and at 2 Bixteth Street, Liverpool).

PARKIN S. BOOTH, *Accountant & Valuer. Phone: City* 1261-2-3

BUSINESSES FOR DISPOSAL

1.—MANCHESTER SUBURB.—Old-established Business in busy suburb; well fitted and stocked; corner position; good house; on lease; returns £700-£1,000, all cash; rent £50 p.a.; let off 14s. 6d. p.w.; price for quick sale £500 all at, or nearest offer. (74)

2.—NORTHUMBERLAND.—Recently-established Cash Pharmacy, with Kodak Agency; average takings £15 15s. per week, which could be considerably increased by energetic qualified man; lock-up shop, rent 5s. per week, house attached; price for goodwill and fixtures, £275; stock to suit purchaser; offers invited. (36)

3.—WOLVERHAMPTON.—For immediate disposal, Cash Drug Stores; corner position in main road, with good living accommodation, on a monthly tenancy at a rental of £40 p.a.; lease can be arranged; returns between £18 and £20 a week; stock about £350; could be considerably increased under qualified management; offers invited. Further particulars on application. (98)

4.—YORKS.—£900 will purchase large double-fronted Shop with Warehouse attached on lease, with 9 years to run; returns £25 per week, nearly all cash; stock about £500; rent £50. Further particulars on application. (60)

5.—LANCS.—Old-established Business in busy town, with good scope for energetic young man; owner retiring; rent £28 12s. per annum; returns between £750 and £1,000, all cash; could be considerably increased; good living accommodation. Further particulars on application. (34)

6.—GRIMSBY.—£1,000 will be accepted for an old-established Business, freehold, taking £25 a week, all cash; house, shop, warehouse and cellar; stock amounts to approximately £200; death vacancy. Write for further particulars and order to view. (75)

7.—CHESTERFIELD.—Old-established, double-fronted shop, 3 warehouses, house, 6 rooms and cellars; lease can be obtained; returns £34 per week, practically all cash; stock £700; fixtures, fittings and goodwill £550; price for quick sale £1,100. (65)

8.—TO CLOSE A TRUST. — SALFORD. — Old-established corner Shop, with 3 large windows and large house, part of which could be sub-let; rent, £120 p.a.; returns, £2,000, all cash; price for goodwill, £300; stock and fixtures, about £900; well worth inspection; write for further particulars. (81)

9.—SUFFOLK.—Old-established good-class Dispensing and Optical Business on lease, 16 years to run, at £100 p.a.; good corner position; large well-fitted windows; returns, £44 per week; stock about £900; good house attached, dining room, drawing room, 6 bedrooms, bathroom and kitchen; vendor has good reasons for disposal; offers invited; fullest particulars on application.

10.—LONDON, S.W.—Good Middle-Class Retail and Dispensing Business, in busy neighbourhood, on a lease at £65 p.a., with 16 years to run; let off 19s. 6d. per week; returns £18 per week, nearly all cash; stock about £350; a really sound business which has very considerable possibilities of increase; has been badly neglected for years. Further particulars on application. (99)

11.—FOLKESTONE.—Small modern Pharmacy, recently established; easily worked; no near opposition; on lease, 18 years to run, at a rental of £45 per annum; rates £12; stock about £400; fixtures, £200; returns, £20 per week; N.H.I. average 100 per month; nicely situated; cash price for quick sale, £750. Further particulars on application. (95)

12.—LONDON, S.E.—Drug Stores, situate in busy thoroughfare; on lease, seven years to run, at a rental of £80 per annum; rooms above shop let off at 21s. 6d. per week; returns last year, £930; could be considerably increased (at present under management); price £450, or near offer. Further particulars on application. (94)

13.—NEWCASTLE.—Good-class Family Retail Business, beautifully fitted and well stocked; returns, £30 p.w.; could be doubled; at present on lease, 5 years to run, at a rental of £110 first year, then £120 for 4 years; stock at valuation, about £1,000, fixtures, fittings, goodwill, etc.; £560, or at valuation. Further particulars on application.

14.—LONDON, W.—Established Pharmacy in best residential neighbourhood, on lease, 13 years to run, at a rental of £30 p.a.; rates, £15; returns, £31 per week; price for lease and goodwill, £900; fixtures and fittings, etc., £300. Stock at valuation about £550. Full particulars on application.

Stocktaking and Vaination of Businesses undertaken at moderate inclusive fee. Chemists are invited to consult us in respect of their requirements in connection with sale or purchase of businesses. Chemists in the North are requested to communicate with our Liverpool Offices.

BERDOE & FISH

WILLIAM S. FISH.

VALUERS AND TRANSFER AGENTS,

41 Argyle Square, KING'S CROSS, W.C.1

(one minute from St. Pancras and King's Cross Stations).

1.—HOME COUNTY (within 20 miles of London).—Sound Light Cash Business, in rapidly growing town; returns, under manager, £1,850; handsome modern Pharmacy; fully stocked; long lease; good house; price £1,400 cash.

2.—MIDDLESEX (banks of Thames).—Good-class Suburban Retail, returning £30 weekly, under management; plenty of scope; large corner Pharmacy; modern front; excellent stock; price £1,250.

3.—BUCKS.—Unopposed good-class Business, entirely under manager and showing steady increase; returns about £1,500; low rent, on lease; lock-up shop; fully stocked; price £850, or £450 and stock at valuation; personally inspected and recommended.

4.—BRISTOL.—For immediate sale through illness, Light Cash Retail with N.H.I.; working-class district; returns average £16 a week; rent £35, on lease; comfortable house; price £375 or close offer.

5.—LONDON, W. (14 miles out).—Unopposed good-class Family Business; pleasantly situated and rapidly growing district; returns last year £800; will do double; modern premises, well fitted and stocked; price £650; worth seeing.

6.—EALING (near).—Very sound Light Cash Retail with Kodak Agency and large Panel; returns £2,600; net profit £635; assistant kept; stock and fixtures worth £950; price £1,450, or £500 and valuation; books audited.

7.—W. KENSINGTON.—Very profitable Cash Retail, in thickly populated district; present returns £1,250; scope for doing £2,000; smart Pharmacy; well stocked; illness sole cause of sale; price £800; trial allowed.

8.—ILFORD.—Old-established Business; has been neglected; present returns £20 a week; plenty of scope; low rent; house attached; price £350 and stock at valuation.

BUSINESSES WANTED.

Messrs. Berdoe & Fish are in immediate want of sound Businesses at prices ranging from £700 to £4,000, and cordially invite correspondence. We have a large number of genuine cash buyers waiting and are able to negotiate sales quickly and with the utmost privacy.

STOCKTAKING VALUATIONS.

ESTABLISHED 1870. Telephone: 0651 Museum.

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER.

Established over Half a Century.

Telegraphic Address: "Tomtom."

PREMISES TO LET.

EASTBOURNE.—A particularly fine opening for a Chemist in one of the finest central shopping positions of this well-to-do town; practically no competition; premises adjoining are in occupation of leading restaurateurs, furriers and costumiers, while overhead is a block of twenty-five spacious residential flats; a long lease will be granted on a bright, lofty shop at a moderate rent to an approved tenant. Apply Hillier, Parker, May & Rowden, 27 Maddox Street, W.1.

FACTORY TO LET.

PECKHAM.—One-storey Factory, with gallery, to Let; floor space 5,500 sq. ft.; very large yard space; rent £225, or price Freehold £1,900. Apply Leopold Farmer & Sons, Factory Specialists, Auctioneers and Surveyors, 46 Gresham Street, E.C.2.

FOR SALE.

FOR Sale.—Glass-topped Counter, 33 inches high, 3 ft. 9 in. wide, 1 ft. 10 in. deep; Bow-fronted Air-tight Centre Case, on base, 6 ft. 1 in. high, 2 ft. wide, 1 ft. 10 in. deep. Apply Wicks, Hairdresser, 7 Wormwood Street, E.C.2.

IN LONDON.—Mahogany nest of Drawers, 13 ft. long, gold sunk labels, £10; mahogany Wall Fitting, 7 ft. long, 3 ft. 3 in. high, mirror back, partly enclosed with plate-glass doors, £6; three cupboards for use behind dispensing counter, 50s.; Sponge Case, 20s. "West-End," 179/16, Office of this Paper.

BUSINESSES FOR DISPOSAL.

BIRMINGHAM (Near Centre).—Business for Sale in industrial area, at present doing about £20 weekly; has done and capable of doing £30; well-fitted shop, with living accommodation; moderate rental; good opportunity for energetic, newly-qualified man; N.H.I. about £300, with scope; price £750, or reasonable offer considered. Ernest J. George, 3 St. Paul's Close, Walsall.

BIRMINGHAM.—Working-class Retail and N.H.I. Dispensing Business in busy shopping thoroughfare; returns, under management, £20-£24 per week, excluding N.H.I., £500 last year; scope for further improvement; rent £40; on lease; living accommodation; stock and fixtures valued at £570; no reasonable offer refused. 177/33, Office of this Paper.

CITY, E.C., in thickly populated residential part; N.H.I. 800 per month; taking £1,700 p.a.; sublet pays rent; long lease; must sell. 180/13, Office of this Paper.

DEVON (Market Town).—A well-established General Retail and Dispensing Business; gross returns, £3,165; good shop and roomy dwelling house, in main street; price of property (freehold), £2,750; goodwill, stock, etc., £1,800. Further details on application. 180/34, Office of this Paper.

EAST ANGLIA.—Good-class, sound Agricultural and Family Chemist's Business for Sale; N.H.I., Kodak, Beer, Wine and Spirit off-licence; no market; no rush hours, but good, steady all-the-year trade; turnover £2,000; freehold property (garden, outbuildings and car entrance; well-arranged house), £1 250; stock, fixtures and goodwill at valuation or agreed sum; no opposition. 176/40, Office of this Paper.

LIVERPOOL (near).—Old-established good-class Family and Retail Business, in good position in shopping centre; well fitted and stocked; Kodak Agency; growing locality; house let off, but could be had at six months' notice if required; returns, £2,000; long lease granted at £72 p.a. Further particulars. Apply, "Pharmacy," 180/37, Office of this Paper.

LONDON, E.—Old-established Drug Stores; returns under junior management about £900; qualified man with N.H.I. would very easily double; present rent £52; let off £26; new lease; price £300 and stock at valuation, about £400; part cash can remain on mortgage; trial willingly; reason for disposal, owner retiring. Apply "Kia-Ora," Templewood Road, Hadleigh, Essex.

LONDON, N.—Cash Drug Stores, on main road; no opposition; established 30 years; turnover exceeds £1,600 cash; very low rent; long lease; good house, with vacant possession; nicely fitted, compact shop, with electric light; Kodak Agency; ample scope for N.H.I.; heavy stock; price, £1,500, all in, or stock can be adjusted to suit purchaser; must be sold owing to illness. 179/34, Office of this Paper.

LONDON (Western Suburb).—£1,450 secures a sound ready-money Business, well established and easily worked; turnover exceeds £2,600 and yielding a net income of £635; books properly kept and audited; every investigation courted; good lease; excellent stock; Kodak Agency; only cash buyers entertained. Apply "Progress," 100/432, Office of this Paper.

MANCHESTER (Near).—Absolute opportunity; well-fitted Drug Store, with Photography, situated in thickly populated district, capable of being substantially increased at once; fitted as Pharmacy, with sound B.P. stock; exceptional offer, with sure prospects for any Pharmacist; value of fixtures, utensils and stock £662; roomy living accommodation; electric light throughout; lease can be arranged; Proprietor leaving business for health reasons; price £750 for quick disposal only; no deputies, only genuine buyers ready for a unique offer. 178/12, Office of this Paper.

MIDDLESEX.—Very profitable Light Retail and Prescribing Business, in busy thoroughfare; average turnover, £60 per week, plus N.H.I.; rent, £85, on long lease; double-fronted shop and house of five rooms; excellent scope for Optics and Photography; price £2,000. Inquirers must give banker's reference; no agents. 181/4, Office of this Paper.

NORTH DERBYSHIRE.—£500 cash for quick sale; bargain: owner buying larger business; genuine; fully stocked Chemist's Business; £20 weekly, besides 400 scrips monthly average; rent 10s. weekly clear rates; no triflers. 179/30, Office of this Paper.

SOUTH STAFFORDSHIRE.—Comfortable unopposed Business; nice position; returns £800 to £1,000, including N.H.I., 125 average per week; profits £320 to £400; lease, with exceptionally low rent and expenses; business will almost certainly increase; valuation terms or cash offer; £450 approximately. 181/2, Office of this Paper.

WEST DERBYSHIRE.—Well-stocked Drug Stores; resident qualified man much needed; good living and store rooms; rent £40; good opening for Photography; age reason for leaving; stock, fixtures and goodwill £700. 178/19, Office of this Paper.

YORKSHIRE.—Genuine old-established Chemist's and Agricultural Business; large turnover, with unlimited scope for increase; owner retiring; principals only acknowledged; banker's references required. For particulars write 165/2, Office of this Paper.

BUSINESS for Sale; pleasantly situated; nicely fitted, well stocked; good lease; low expenses; cash turnover; fine living accommodation; price approximately £800. Full particulars on application. 180/350, Office of this Paper.

COUNTRY Pharmacy; large commanding lock-up shop, under flats; established 25 years; well fitted, well stocked; average returns, with manager, £2,400 per year, audited, at good profits; 3 years' lease at £75; premises could be bought; a flat can be had; owner retiring. 172/20, Office of this Paper.

CHEMIST Business, South Yorkshire colliery village; stock and fixtures at valuation (round £350), plus £30 goodwill; N.H.I. 500 per month; turnover, under indifferent management, £14 per week; rapidly developing district; suit energetic beginner, lady or gentleman; chance seldom met with. Apply 163/12, Office of this Paper.

DRUG Stores; Midland town; populous district; no near opposition; well-fitted shop; good pre-war house, freehold; all modern conveniences; suit young Pharmacist; plenty of scope for increase with Dispensing, N.H.I. and Photographics; genuine reason for disposal; possession before Easter; price £975, including stock. 179/20, Office of this Paper.

GENUINE Light Retail, popular seaside resort, within an hour and quarter of London; at present lock-up; full possession premises later; been neglected; nicely fitted and stocked; ample scope; ideal either for qualified or multiple firm; full particulars on inspection; best offer over £300; cost over £400; sacrificing owing to illness. "Genuine," 179/29, Office of this Paper.

PHARMACY, established 8 years, in densely populated working-class district; exceptional opportunity for Pharmacist; one mile from Piccadilly, Manchester; very heavy stock; everything for N.H.I.; only good to worker; no agents; no inquiries answered except where bank reference enclosed; very sound proposition; rent, rates, taxes, gas and electric light all paid by part let; could be run by purchaser if desired; £1,000 cash, or near. 169/11, Office of this Paper.

SPLENDID living for Chemist in small country town in Kent; Retail, Photographic, with little Optical; no heavy trade; easy hours; no Sunday; well-stocked, double-fronted old-established; 18 years' lease at low rental; good living accommodation; £1,850 for quick sale; Partnership entertained. 100/435, Office of this Paper.

£500.—MIXED Retail Business for Sale, North Staffs; present takings about £20 per week; double-fronted shop on main road; Optics, Photographic could be added; nicely fitted and stocked. 174/20, Office of this Paper.

£750.—FOLKESTONE. — Modern Pharmacy, centrally situated in residential quarter; no near opposition; progressive Dispensing, Prescribing and Photographic; profits above average; well stocked and fitted; returns past 12 months about £20 weekly; established one year; long lease; rent £45; rates £12; pleasant 6-roomed house; further particulars on viewing; books properly kept. 177/11, Office of this Paper.

£750.—LANCS; well-fitted modern Branch Shop; busy main road; good shopping area, thickly populated; doing £1,500 under manager; good profits, mostly own lines; Kodak Agency, N.H.I.; Owner concentrating on Optical; dwelling part could be used or let off; genuine buyers only, please. "City," 180/19, Office of this Paper.

APPOINTMENTS.

ROYAL VICTORIA HOSPITAL,
FOLKESTONE.

THE Committee of the Hospital require a part-time Dispenser about 3 to 4 hours daily.

All particulars may be obtained from the Secretary Superintendent at the Royal Victoria Hospital, Folkestone.

R. W. REED, Capt.,
Secretary Superintendent.

22nd March, 1927.

PARTNERSHIPS.

ADVERTISER, a qualified man of business, reliable, trustworthy, would join with another to commence a Wholesale Company; £2,000 would be required; absolutely sound proposition; suitable for unqualified man or for father to start son in business; with hard work, patience and grit profitable business can be made. 180/20, Office of this Paper.

WANTED, fully qualified Chemist and Druggist to take entire charge; to invest half-share in new business; salary to be arranged and half profits; premises already found; advertiser would invest same amount. "G. F. F.," 117 Camberwell Road, S.E.

BUSINESSES WANTED.

FIRST-CLASS, old-established Chemist's Business required in or near London; main thoroughfare preferred; price from £2,000 to £6,000. Proprietors desirous of selling invited to communicate with F. & W. Stiles, 170 Piccadilly, W.1.

WANTED, a Business in a main road; pleasant district; turnover about £1,500. Please give rent, rates, lease, value of stock, etc. 180/35, Office of this Paper.

AGENCIES.

AGENTS WANTED IN MARKET TOWNS for HILSTON'S FOOT-ROT OINTMENT.
This preparation has THE sale in Scotland and the North of England, and will bring business to your shop.
Very liberal terms and encouragement given.
Write for particulars to—
J. & D. HILSTON,
CHEMISTS (Estd. 1838), LANARK.
'Phone: 123. Telegrams: Hilston, Lanark.

IRISH FREE STATE.—Representative, calling on Chemists in Free State for Packed Goods for well-known London House, wishes to hear of one or more additional Agencies; highest references. 178/18, Office of this Paper.

NORTHERN IRELAND.—Advertiser, well and favourably known to all Chemists in Ulster, over 20 years representing well-known Wholesale Druggist and Sundry Firm, open to accept Agency; expenses and commission. Address "J. C. B.," 165/37, Office of this Paper.

AGENT on commission wanted, with good connection amongst Retail Chemists, to sell Toilet Rolls. Tennyson & Co., 95 Albion Street, Leeds.

FRENCHMAN, with good connection in Paris in the Druggist and Perfumery trades, wishes to act as General Agent for British Patent Goods; first-class references; in London till end of March. P.C.B. 12/28, Office of this Paper.

ONE of the best-known Brush Factories in Germany is looking for Representatives in London and provincial towns; applicants must know the trade and have business experience. Reply, with photograph, to 175/37, Office of this Paper.

SPANISH Pharmacist, with English experience and with extensive business connection in Barcelona and Northern Spain, wishes to undertake Agency of British Pharmaceutical firms. Write to 100/433, Office of this Paper.

SALES BY AUCTION.

Re Cane and other Estates.

B. NORMAN & SON

Will Sell by Auction, at their Sale Rooms, 5 Little Britain (close to G.P.O.), London, E.C.1, WEDNESDAY, MARCH 30th, at 12.30 p.m.,

CHEMISTS' AND DRUGGISTS' FITTINGS AND SHOWCASES, including Dispensing Counters and Screens, Druggists' Labelled Nests of Drawers, Wall Fittings and Recess Mirrors, Chemists' and Perfumers' Mirror lined, and other Wall Showcases, Counters with slope fronts and mirrored doors at back, all plate-glass Counters and Silent Salesmen and Centre Showcases, plate-glass Shelves, Cash Desks and Tills, Office Furniture, Safes, Typewriters, Linoleum, Chairs, etc.
On view day prior. Catalogues of the Auctioneers, as above.
Telephone: Central 6463 (2 lines).

SITUATIONS OPEN.

RETAIL.

[*HOME.*]

BARNES.—Junior or Improver wanted for good-class Dispensing and Retail business. Apply, stating experience, age, height and salary required, to Feltwell & Son, 90 Church Road, Barnes, London, S.W.13.

BARNSTAPLE.—Wanted, immediately after Easter, competent Assistant, not over 35, for general, N.H.I., and agricultural trade. Please state salary required, height, age, experience and references to Dyson, Chemist, Barnstaple.

BIRMINGHAM.—Qualified Man required, with good all-round experience, chiefly for Counter and Windows, with Photography; used to a quick turnover and able to take charge. Atkinson, Six Ways, Birmingham.

BIRMINGHAM.—Young Qualified Manager for small Branch wanted at once. Apply by letter, stating salary and experience, to Hague, Chemist, 336 Gooch Street, Birmingham.

BIRMINGHAM.—Qualified Gentleman required for medium working-class Retail. Full particulars, photo if possible. All applications not answered in four days respectfully declined. Raynes Dispensing Chemists, Ltd., 9 John Bright Street, Birmingham.

BIRMINGHAM.—F. H. Prosser (Retail), Ltd., require immediately Qualified Branch Manager, age 30-35; keen, energetic Salesman, good Dispenser, Photographic experience; permanency; good salary; interview. Apply 59 Spring Hill.

BIRMINGHAM.—Young Qualified Man, with experience of working-class business, wanted for newly-opened Branch; fine opportunity for a capable, energetic man, not afraid of work; salary and commission; immediate appointment. Bannister & Thatcher, Ltd., 43 Caldmore Road, Walsall.

BIRMINGHAM (suburb).—Junior Assistant, about 20, with experience of quick Counter, Dispensing and Photographic trade. Send full particulars, with salary, to "Regnoth," 179/38, Office of this Paper.

BLACKHEATH, S.E.—Lady required, with thorough knowledge of Photography, for Photographic and Toilet Counters and Windows. Send photo and full particulars. Bailey, Chemist, 61 Old Dover Road, Blackheath, S.E.3.

BRADFORD.—Chemist requires Unqualified Young Lady Assistant for Mixed Business; temporary, probably permanent. Full particulars and salary required, 177/35, Office of this Paper.

BRISTOL.—Qualified Manager for brisk Cash Retail, N.H.I. and Photographic; experienced Counterman and organiser; Optical experience advantageous. Please state age, credentials, salary, with recent photo, to C. A. Stokes, M.P.S., 34 Lower Castle Street, Bristol.

BURNLEY.—Assistant, qualified, young, wanted at once; salary £4 10s. Send full particulars. David Weir, Ltd., 175 Oxford Road, Burnley.

CITY.—Required, at once, qualified male Assistant (not over 35) for Dispensing and Counter. Apply by letter, stating usual particulars and salary required, Manager, R. Howden, 11 Fenchurch Street, E.C.3.

GLAMORGANSHIRE.—Wanted, Qualified Manager for light Retail and Dispensing Business; good berth for suitable man. Apply, stating age, etc., and salary required, to 100/434, Office of this Paper.

HEREFORDSHIRE (Market Town).—Qualified Male Assistant required immediately, to take charge of Branch; used to Agricultural business; duties light; suit elderly gentleman; live in meals out; moderate salary. Enclose photograph, references, etc., to 178/27, Office of this Paper.

IPSWICH.—Capable Junior unqualified Assistant required; N.H.I. Dispensing and Photographic. Full particulars to G. W. Hales, Chemist, 21 Tacket Street.

LONDON (N.W. Suburb).—Unqualified Assistant or Junior, 21 to 35, required for quick Retail, N.H.I. and Photographic Business; must be obliging and have good reference. Apply, stating experience, age, salary required, to Ascott's, Ltd., 169 Hemingford Road, N.1. 'Phone: North 4665.

LONDON, S.E.—Qualified Assistant wanted (outdoors) for quick Cash Retail; no Sunday duty; close 1 o'clock Thursdays. State age, salary required, and full experience. Brooks', 509 New Cross Road, S.E.14.

LONDON, W.1.—Required, Lady Assistant for three or four months; short hours; no Sunday duty; must be qualified (Minor). Apply, stating age, experience and salary required (outdoor), 177/38, Office of this Paper.

LONDON, N.—Competent Assistant and Junior required (outdoors) for Dispensing, Retail and Photographic Business. State full details of experience, age, height, salary required, when disengaged. F. J. Sandberg, 22 Regent's Parade, North Finchley, N.12.

LONDON, N.—Qualified Assistant (male); suit active middle-aged man; hours 9 to 8, Thursdays 1 p.m., Saturdays 9 to 9; no Sunday duty; outdoors. Full particulars, Sanderson, 220 Fore Street, Edmonton, N.18.

LONDON, N.—Junior Assistant, well up in D. & P.; methodical and quick; principally for Workroom and Counter. 179/13, Office of this Paper.

LONDON, S.E.—Lady or elderly gentleman, with Minor qualification, required in Drug Store; comfortable berth. Apply, stating salary and when free, to 179/23, Office of this Paper.

LONDON, S.W.—Qualified Assistant, well up in Dispensing and good Counterman. Apply, by letter, stating full particulars and salary required, to 179/14, Office of this Paper.

MANCHESTER DISTRICT.—Qualified Lady wanted for General Retail Business; comfortable non-resident post. State age, experience and salary required to Broadbent, 1177 Chester Road, Stretford.

MIDLANDS.—Competent Dispenser, young, unqualified, energetic; used to brisk N.H.I. work and making stock. Also Lady Assistant (young) for Counter, Window-dressing, etc., who can give hand with Dispensing when necessary. References, photo, salary required to L. H. Lester, Bridge Street, Nuneaton, Warwickshire.

PLYMOUTH.—Assistant, unqualified, required for good-class Retail and Dispensing Business; age 30-35. Please state full particulars of experience, references and salary required to 178/34, Office of this Paper.

QUEEN'S HOSPITAL, BIRMINGHAM.

ASSISTANT Dispenser (M.P.S.) required. Applications, giving full particulars of qualifications, experience and salary required, and accompanied by testimonials, to be sent to the undersigned (from whom any further information can be obtained) not later than April 6th.

G. HURFORD, House Governor.

Birmingham.
March 21st, 1927.

ST. BARTHOLOMEW'S HOSPITAL, E.C.—Junior Assistant Pharmacist (male) wanted; hours 9 till 5 daily; occasional late duty (8 p.m.); commencing salary £200 per annum, progressive increase of £25 yearly. Applications, stating age, height, and other details, to be made by letter only to The Pharmacist at the Hospital.

SOUTH COAST.—Assistant Lady Dispenser wanted immediately as Locum for high-class business for at least a month; Hall qualification preferred; experience essential. Apply, stating full particulars, to the Manager, Drug Dept., Palmeira Stores, Hove.

SOUTH COAST.—Unqualified season hand wanted, April 25 to October 1; must be energetic and good Dispenser; four others kept. Apply, with full particulars and salary required (outdoors), to 177/7, Office of this Paper.

SOUTH WALES.—Unqualified male Assistant wanted; capable Dispenser; willing to assist generally; Welsh-speaking preferred; industrial town. Full particulars, age, height, experience, references, salary, etc. 179/24, Office of this Paper.

SURREY.—Junior Assistant, unqualified, required; must be neat and accurate Dispenser and capable at Counter. In reply give names of last two situations for reference. State age and salary required to 180/18, Office of this Paper.

WEST END.—Smart Junior Assistant required for high-class Business; personal interview preferred, or full particulars as to experience, height and salary required, with photo. A. Burden & Co., 78 Duke Street, London, W.1.

WEST-END.—Qualified Assistant with good experience of high-class Perfumers, Brushes and Proprietaries, etc., appertaining to that class of trade; should be a linguist. State age, height, and salary required. 180/9, Office of this Paper.

A QUALIFIED man wanted to manage branch shop; good living accommodation available. Apply, stating age, references and experience, to 179/17, Office of this Paper.

A YOUNG Qualified Assistant required for London Branch to take charge of Dispensing department; must have initiative and be energetic; scope for advancement to the right man. Required also Assistant, unqualified, for evening duties. All applications to G. W. Todd, Staff Manager, Messrs. Mortons, Cash Chemists, Limited, 510 Harrow Road, W.9.

APPRENTICE wanted in good middle-class Dispensing and Counter business; must have passed Preliminary and preferably Part I; good training for suitable lad not afraid of work. Apply Manager, 385 Durnsford Road, Wimbledon Park, S.W.19.

ASSISTANT or Manager, young, qualified, for busy seaside Pharmacy wanted immediately. Apply, by post, giving age, experience and salary required, to S. C. Coope, 201 Waterloo Road, Blackpool, S.S.

CAPABLE Assistant required soon; Dispensing and Counter. Apply with full particulars, first letter, age, experience, when disengaged, and salary required. J. Dobson, Chemist, Hounslow, Middlesex.

CHEMIST and Optician requires Assistant, must be qualified in both, for middle-class North London business; Optical experience essential; outdoors; early April. State experience, age and salary, and send references. 175/33, Office of this Paper.

DISPENSER required (fully-qualified M.P.S.) for the Lowestoft Friendly Societies' Medical Institute. State age, experience and salary required. Apply Edward Kemp, 94 Norwich Road, Lowestoft.

DISPENSER Book-keeper; medical practice near Ilford, Essex; reside in unfurnished flat; responsible for cleaning Surgeries, waiting-room and Dispensary. Write, stating age, experience, testimonials and salary required, "Trio," 179/1, Office of this Paper.

DISPENSER (Hall) to supervise and help in easy Veterinary Dispensing just outside London; liking for animals and ability to teach Elementary Dispensing will be an advantage. Apply, giving age, salary and full particulars, "W. A. J.," 179/22, Office of this Paper.

EXPERIENCED and energetic Assistant wanted; quick and accurate Dispenser and good Counterman. Apply by letter, giving full particulars and enclosing photo if possible, Hall, Chemist, Pinner.

IMPROVER wanted; easy hours; no Sunday duty; time for study. Apply, with age, salary required (outdoors) to J. W. Hickinbottom, 16 Northgate, Sleaford.

JUNIOR Assistant wanted, smart capable man, for quick business. H. Baker, Chemist, 161 New Cross Gate, S.E.14.

JUNIOR Assistant wanted, unqualified, must be smart and have had the best experience, accustomed to the requirements of Medical men, for Counter work and Stock; outdoors; several assistants kept; short hours. Apply, with photo, state salary expected, to Ralph Cuthbert, Ltd., Westgate, Huddersfield.

JUNIOR Assistant (male), with Dispensing experience and accustomed to good-class business; others kept. Apply (by letter), stating age, height, experience and salary required, "C. B.," 20 New Street, Dorset Square, N.W.1.

JUNIOR wanted immediately, South-East London; Improver would be considered. Full particulars, "W. A.," 180/40, Office of this Paper.

KEEN Qualified as Manager; London, S.E. suburb; single-handed at first; must be Photo Salesman and Window-dresser. Replies not answered three days respectfully declined. Particulars, salary, etc., to P.C.B. 13/5, Office of this Paper.

LADY Dispenser required for part-time work by firm of Doctors in S.W. London; much experience not essential. Apply 178/9, Office of this Paper.

LADY Book-keeper, with knowledge of Typing, required for Chemist's business in London, W.2. Please give full particulars, age, experience, and salary expected. 178/26, Office of this Paper.

LADY Dispensers (Hall Certificate) for Chelmsford, Camden Town and Watford districts, with good Dispensing and Counter experience. Apply, with full particulars, to Parkes Chemists, Ltd., 65 Harmood Street, Chalk Farm, N.W.1.

LADY Assistant (recently qualified) required immediately in London Pharmacy. Apply, with references and salary required, to 179/5, Office of this Paper.

LADY (Minor) Assistant required for Dispensing and Retail; London; outdoors. State when disengaged, salary required, and give usual details of experience. 181/1, Office of this Paper.

MANAGER required; Ealing district; keen, energetic, able to build up business; house accommodation available. Apply, with full particulars, to 100/431, Office of this Paper.

MANAGER for London district; must have had experience of good-class up-to-date business. Apply, with full particulars, to 100/430, Office of this Paper.

PARKES CHEMISTS, LTD., have a vacancy for a Junior Assistant, experienced in Dispensing, Window-dressing and Counter work. Apply by letter, with full particulars, to 65 Harmood Street, Chalk Farm, N.W.1.

PART-TIME Qualified Assistant required, married, to live in; a little evening work. Apply, with full particulars, to Amoore & Co., 173 Sloane Street, S.W.

PHARMACISTS wanted as Managers of new branches; permanencies and good prospects. Timothy White Co., Ltd., Portsmouth.

QUALIFIED man required as Manager for a branch in a working-class area; outdoor; one used to plenty of N.H.I. Apply, by letter, stating age, height, experience and recent references, which will not be taken up unless entertained. Savage & Co., Pharmaceutical Chemists, Brighton.

QUALIFIED.—Young man, qualified, offered comfortable position second week April; one desiring permanency preferred; Window-dresser; good hours; no Sunday or Bank Holiday duty nor N.H.I. References and salary required to Toms, Ltd., 14 Wind Street, Swansea.

QUALIFIED Assistant (male) required; age about 30; good Dispensing experience essential. Please give full particulars, stating salary required. Hutton & Barrett, Ltd., Leamington.

QUALIFIED Assistant, good Counterman, Window-dresser, to manage small branch. Please state experience, age and salary, with recent photo if possible, to C. A. Stokes, M.P.S., 34 Lower Castle Street, Bristol.

QUALIFIED Manager, married, required to open a business; splendid opportunity for a man of ability; good modern house, free. 177/370, Office of this Paper.

QUALIFIED Manager required (single); permanent and progressive post if satisfactory. State age, experience and salary required. 177/37, Office of this Paper.

QUALIFIED Assistant wanted for Edgware branch, view management; also Junior for City; Photographics essential. Write full particulars, age, height, salary required to Manager, Holt Green, Chemists, Mark Lane Station, E.C.3.

QUALIFIED Manager wanted at once, age 25-38; Dispensing, Counter, Photographic and Window-dressing experience essential. State age, height, experience, reference and salary required, enclosing photograph, if convenient. Wells & Smith, Ltd., 36 Stone Street, Maidstone. 'Phone: 753.

QUALIFIED Manager, used to quick Counter trade and N.H.I. Dispensing, Photographic experience essential, for new Branch in Midlands; a progressive position for good man; small house accommodation. State salary required and when disengaged, with references. Duncan Wright, Chemist, Carter's Green, West Bromwich.

QUALIFIED Manager for Cash Retail and N.H.I. Dispensing in South London. Apply by letter, giving full particulars of experience, age, height and salary required, to Briggs Cash Chemists, Ltd., 197 Hoxton Street, London, N.1.

QUALIFIED Assistant required to take charge; North London district; one having just taken examination and from North of England preferred; single; accommodation (away from business) provided; good knowledge of Photography essential. Fullest particulars in first letter to Williamson, 179 New North Road, N.1.

QUALIFIED Assistant (lady) for Counter and Dispensing. Please state full particulars of experience and salary required. Mitchell, 6/8 Lewisham Road, Lewisham.

SMART qualified man, about 25, for working-class business, W.9; capable of taking charge; progressive salary to reliable man. Apply (by letter in first instance) "Pharmacist," c/o 55 Dorset Street, W.1.

SMART Junior Assistant (male), accustomed to good-class Dispensing and Counter work. State salary and full particulars in first letter and when disengaged. 100/429, Office of this Paper.

UNQUALIFIED Assistant (22-26) wanted after Easter for light Retail and Dispensing. Apply, stating age, height, experience, and salary required (indoors), to Cooper, 107 London Street, Reading.

WANTED, Junior Assistant (male) end of March. State age, height, references, salary required (outdoors). Milton & Son, 265 High Street, Exeter.

WANTED, soon, Welsh-speaking, country town, qualified Manager; abstainer; energetic; used to Agricultural business; knowledge of Optics and Sight Testing desirable, also Photography; permanency if suited. Apply, with full particulars, experience, salary and references, to 174/24, Office of this Paper.

WANTED at once for the North of England, Qualified Chemists. State age, experience, salary required, and when at liberty. Taylors' Drug Co., Ltd., Burley Hill, Leeds.

WANTED.—Qualified Assistant, lady or gentleman; permanent situation; duties light. State age, experience, salary, and full particulars, first letter, to 178/10, Office of this Paper.

WANTED.—Experienced unqualified Assistant for a responsible position in a Dispensing business in inland watering place. Applicants will please state age, height, salary required, and give references to "Statim," 178/14, Office of this Paper.

WANTED at once, qualified man; Counter, Dispensing and Photography. Apply, stating age, references and salary required, and height. Charrington, Chemist, Lichfield, Staffs.

WANTED, unqualified Assistant, single, not under 27; accurate Dispenser for light Retail business. Goding, Edenbridge, Kent.

WANTED, smart Junior, Dispensing and Counter, immediately. B. W. E. Beard, 281 Forest Road, Walthamstow, E.17.

WANTED, qualified gentleman to act as Superintendent for Company; also young lady with Minor qualification. Apply, giving full particulars of salary required, etc., 100/10, Office of this Paper.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 60 to 100 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

WHOLESALE.

A LARGE firm of Wholesale Druggists in the North of England require the services of a general Warehouse Manager. He must be a fully qualified Pharmacist, aged about 30, and a good organiser and disciplinarian. Full particulars in regard to age, education and qualifications, experience, salary required, etc., should be given. All replies treated in strict confidence. 100/424, Office of this Paper.

AN opportunity occurs on the Selling Staff of a leading French Toilet House for a young, alert and conscientious Salesman; the work is difficult, but the right type of man will succeed and make a good living; previous experience preferred, but not essential if other qualifications present, since training will be given. Write fully, in strict confidence, giving experience and salary expected, and if possible enclose photo, which will be returned if addressed envelope is enclosed, to P.C.B. 11/28, Office of this Paper.

DICTAPHONE Operator, with knowledge of Drug and Chemical trade; permanent post for suitable applicant. Reply to Old Strand Chemical and Trading Co., Ltd., Audrey House, Ely Place, E.C.1.

FIRM of Wholesale Chemists require services of young man, preferably qualified and able to drive car, with good experience in Despatch Department or Wet Room, to act in similar capacity and as Representative when required. Full particulars of experience in first letter. 177/5, Office of this Paper.

SALESMEN required by a leading London House of Importers of Fancy Goods and Toilet Specialities for London and provinces, and Scotland, Ireland and Wales, on a basis of part expenses and commission. This is an opportunity for the right type of man of wide experience and some connection, who should reply giving fullest particulars. 100/426, Office of this Paper.

THE KRASKA CO., LTD., 65 Portobello Road, W.11, have vacancy for Works Manager; applicant must have experience in Toilet articles. Apply, by letters only, to Managing Director.

TOILET Preparations, Face Creams, Lotion, etc.—Practical man wanted to assist in a London Laboratory; must be able to take charge later. State experience and salary required. 100/425, Office of this Paper.

YOUNG Laboratory Assistant required immediately by large firm in London district; age about 25, and experienced in the Manufacture of large quantities of Ointments, etc. Apply, stating age, wages required, and experience, to 100/428, Office of this Paper.

YOUNG lady, Shorthand-Typist and for General Office work, required in Colonial Merchant's Office; one with some experience in the Drug Trade and quick at figures preferred. Apply, in own handwriting, to "Austral," 100/427, Office of this Paper.

[COLONIAL, INDIA AND FOREIGN.]

BRITISH COLONY.—Chemist, qualified, 22-26, unmarried, with good Retail and Dispensing experience, wanted for high-class European firm in British Colony; 4 years' agreement; passage paid. Write, stating full details, to Box J. 540, Willings, 133 Moorgate, E.C.2.

INDIA AND THE EAST.—London firm of Manufacturing Chemists require Traveller to represent them in these countries; one with previous experience abroad preferred; age about 30; single; some knowledge of Therapeutics and experience of interviewing medical men desirable; whole-time position affording reasonable prospects for industrious and trustworthy man. When applying state age, previous experience, salary required, etc., to 100/423, Office of this Paper.

SOUTH AFRICA.—A qualified Chemist and Optician, holding Diploma, F.S.M.C., wanted in an up-country town. None but good men need apply; good salary and prospects. Apply, with full particulars, to "Gentian," c/o S. Maw, Son & Sons, Ltd., Aldersgate Street, E.C.1.

SITUATIONS WANTED.

RETAIL.

[*HOME.*]

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A CAPABLE Assistant, 30; unqualified; disengaged; experienced Surgical, Counter and Window-dressing; smart Salesman; well recommended; excellent references. "Progressive," 32 Kingcroft Street, Highbury, London, N.7.

A CAPABLE Lady Assistant, Hall Dispensing qualification, ten years' excellent experience, desires post; salary moderate. 180/24, Office of this Paper.

A YOUNG Man, 21, desires situation as Window-dresser and Counter Assistant; south-west preferred, but not essential; disengaged soon. 179/4, Office of this Paper.

AN energetic Assistant requires situation; North Staffs preferred, not essential; age 20; 5 years' good all-round experience; free April 11. "W. R. S.," 112 Murray Road, Rugby.

AS Manager; qualified Optician, experienced Buyer; thorough knowledge Cameras, Photography, D. & P.; age 35; married. 175/22, Office of this Paper.

AS Senior Assistant, or would manage; good salesman, Dispenser, Window Dresser and Prescriber; could build up neglected business; unregistered; near London preferred. Apply, "Worker," 178/7, Office of this Paper.

AS Locum; disengaged; Easter or Whitsun; highest references. "Chemist," 81-83 Arthur Road, Wimbledon Park, S.W.19.

AS experienced, live man, management, Senior; quick, accurate Dispensing; smart Counter Salesman. "G.," 130 Scott-Ellis Gardens, N.W.8.

AS Manager or Assistant; age 28; qualified 1920; single; abstainer; thoroughly experienced, Buying, Photography, Dispensing, Window-dressing, etc; two years present post as manager; London or Birmingham preferred, but not essential. "Scot," 181/15, Office of this Paper.

AT Bournemouth, April 11 onwards; open for relief Counter work, by arrangement. "Retired," 177/39, Office of this Paper.

ASSISTANT, 26, unqualified, fully experienced high-class Dispensing Family business, seeks permanency, Bournemouth or South Coast district. Full particulars, salary offered, etc., 177/4, Office of this Paper.

ASSISTANT (21), Part I; high-class experience; accurate Dispensing; references; desires post. Watson, 15 Granville Road, Harrogate.

ASSISTANT (22); good all-round experience in country, town and seaside businesses; disengaged April. Moss, 38 William Street, Kettering.

ASSISTANT (20), desires situation; four years' experience; tall. Apply, Farmer, 48 Rosendale Road, Dulwich, S.E.21.

ASSISTANT and Dispenser, unqualified, lady, 24, desires post with Chemist or Doctor, temporary or permanent; 9 years' varied experience; thoroughly competent, reliable. "Rhei," 16 Willow Street, London, E.1.

ASSISTANT requires evening Dispensing, Counter, after 6.30. Cherat, 45 Willow Crescent, Willowbank, Denham, Bucks.

ASSISTANT, unqualified, 12 years' experience, Dispensing, Counter, Photographic, seeks temporary or permanent engagement; Midlands preferred, not essential. 180/33, Office of this Paper.

CAPABLE Assistant, Part I, age 22, tall, with good Dispensing experience and accustomed to high-class Pharmacy, desires engagement; highest references. H. H. Clegg, 14 Stockport Road, Romiley.

COMPETENT, experienced Assistant, disengaged, desires permanency; excellent references; part-time entertained. "Statim," c/o 10 Shrewsbury Road, W.2.

DISENGAGED until September, young, unqualified Assistant; good experience of Dispensing, Counter and Photography; any references; seaside preferred. C. B. Gosling, 6 North Road, Clapham Park, London, S.W.4.

DISENGAGED; qualified, experienced Pharmacist; middle-aged; active; good Dispenser; Locum work preferred. "Statim," 34 Waterloo Road, S.E.1.

DISENGAGED, M.P.S.; Manager, Senior or position of trust; thoroughly capable in all branches; age 53. 180/16, Office of this Paper.

DISPENSER, lady (Hall), thoroughly experienced, excellent testimonials, requires permanency; Doctor, Hospital, Chemist; South Coast preferred. 179/10, Office of this Paper.

EXPERIENCED Assistant; good Dispenser and Counterman; single; middle-aged; unqualified. "Statim," c/o Mrs. Chambers, 3 Jellicoe Avenue, Monk's Road, Lincoln.

FIRST-CLASS and keen Counterwoman; 30; disengaged; newest Toilets, Dispensing, Photography, Book-keeping. P.C.B. 11/29, Office of this Paper.

IMPROVER.—Height 6 ft.; just completed four years' apprenticeship; Nottingham or near. Garbett, 1 Leonard Avenue, Sherwood, Nottingham.

LADY, unqualified, 19, smart Counter, Dispensing, 4 years' experience, desires post. 175/20, Office of this Paper.

LADY Dispenser (Hall) requires permanency anywhere; excellent experience in Hospital and with Doctors; Book-keeping. 65 Mayfair Avenue, Ilford, Essex.

LADY Dispenser requires post in London; four years' experience; Doctor or Chemist. 179/11, Office of this Paper.

LADY Dispenser (Hall qualification) requires post, Doctor or Chemist; book-keeping and typewriting if required. 180/29, Office of this Paper.

LOCUM; experienced; competent; trustworthy; used to good class business; disengaged; highly recommended. "Mack," 41 Tavistock Crescent, W.11.

LOCUM, 53; experienced; excellent references; disengaged 28th; London or suburbs. Findlay, 62 Lillie Road, West Brompton.

LOCUM free for Easter; given up own business; abstainer; middle-aged; moderate terms; town or country; general experience; some Optical; best references; booking dates. Carte, 156 Town Street, Rodley, Leeds.

LOCUM; disengaged; experienced Counterman, accurate and reliable Dispenser; qualified; elderly; salary 65s.; outdoors. "Resorcin," 34 Kingscote Road, Addiscombe, Croydon.

LOCUM (Hall) booking dates from now; 7 years' experience; Lancs or Yorks district preferred. Turner, Alston, Standish, Wigan.

LOCUM; thoroughly experienced; competent; reliable; town or country; terms moderate; disengaged April 2. "Chemicus," 239 Camberwell New Road, S.E.5.

LONDON.—Qualified, well recommended, desires change; accustomed to good-class practice; Dispensing, Counter, Optics, Photographics; Managerial capacity or as Senior; 34; single; at liberty about May 2. 180/4, Office of this Paper.

MANAGER; 29; qualified; good experience; excellent references. 175/26, Office of this Paper.

MANAGER; qualified pre-war; highly recommended; London or near; Photographic, Dispensing, Windows; wide experience; disengaged. "Worker," 123 Bennerley Road, S.W.11.

M.P.S.—MANAGER; tall; steady; London and country experience; disengaged April 9. "Pharmacist," 12 Woodland Street, West Gorton, Manchester.

PHOTOGRAPHY.—Advertiser (until recently manager of large Developing and Printing workrooms) desires similar post for all or parts of coming season; expert organiser and controller of staff, with thorough knowledge of all amateur needs. 179/35, Office of this Paper.

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QUALIFIED Locum, registered R.P.U., now booking dates for holidays; London or suburbs. "L.," 119 Fairlands Avenue, Thornton Heath.

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149 Newington Causeway, LONDON, S.E.1

QUALIFIED, high-class Retail and Dispensing, thorough knowledge of Photography and Surgical Fitting, used to controlling staff, desires Management of good-class business; capable of expansion; age 42; abstainer; highest references. 180/170, Office of this Paper.

REFINED young lady, with first-class West-End experience, requires suitable post in Toilet or Perfumery Department of a good West-End house; disengaged shortly. Write 175/38, Office of this Paper.

S. DEVON.—Junior, age 20, tall, used to good-class business, requires post; free about May 1. Hatley, "Hampton Poyle," Kidlington, Oxford.

SOUTH COAST.—Lady, with 9 years' experience (three as indentured apprentice), requires post about May; Dispensing only preferred. 176/39, Office of this Paper.

STUDENT requires position, Notts or Derby, with two free days per week for College during term. "Brunswick," Ilkeston.

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UNQUALIFIED Assistant requires post in the Torquay district after Easter; good Dispensing and Counter experience. W. H. Lee, 27 Trewsbury Road, Sydenham, S.E.26.

UNQUALIFIED, 26; married; 7 years good-class Counter, Window-dressing, Dispensing and Photographic (D. & P.); disengaged. "Hamill," 761 Garratt Lane, Tooting, S.W.

UNQUALIFIED Lady Assistant seeks post; 12 years' experience, Dispensing, Photographic and Counter; permanent or locum; disengaged. 180/26, Office of this Paper.

WHOLESALE.

AS Representative; qualified; long Retail and Hospital experience; good appearance and address; Drugs, Surgical or Proprietary; abstainer; highest references; motorist. 180/17, Office of this Paper.

FREE Lance, live connection London, wants another line; Brushes, Combs, Soaps, Toilet Paper, or must be keen. "Optimist," 179/15, Office of this Paper.

GENTLEMAN, Chemist, exceptional experience as Representative, Propagandist, Speciality Salesman, at present travelling all England and Wales in supervisory capacity, seeks change as domestic circumstances would make more home life desirable. Invites from reputable house, any proposition of an administrative or organising nature, either wholly inside, or partly inside and partly travelling alternatively, having excellent connection in South Wales and West of England, would consider Representation of sound Proprietary, Drug or Sundries thereon. Highest references ability and integrity. 179/25, Office of this Paper.

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REPRESENTATIVE, sound London connection, seeks position with established house; drugs and packed goods preferred. "P. C. B.," 12/10, Office of this Paper.

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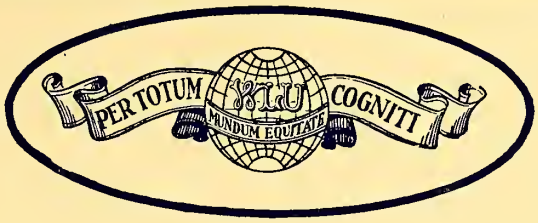

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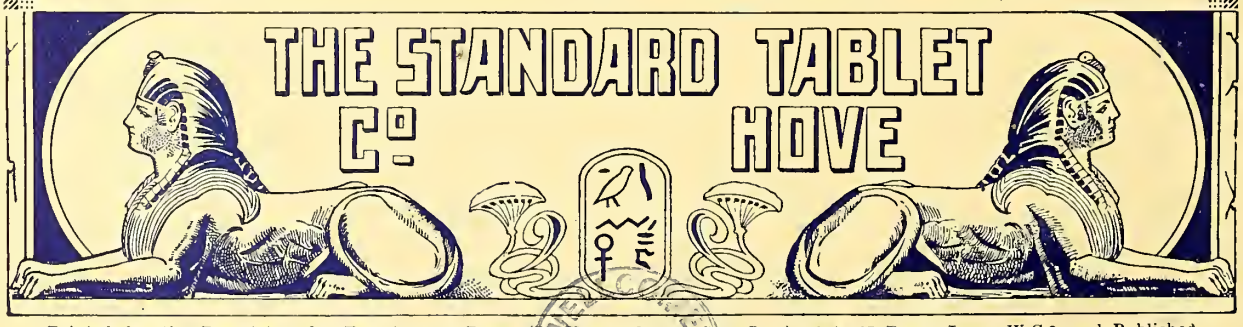

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